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ABSTRACT

The purpose of this manual is to serve the needs of a data processing facility in the operation of a management information system (MIS). Included in the manual are system flowcharts, job control language, and system documentation. The system has been field tested and operates under IBM System 360/Model 65-05-MVT-HASP. The programing language is ANS-COBOL. (Author)

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MANAGEMENT INFORMATION SYSTEM PROJECT

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Dr. Gordon Harr 1969-1972

Data Processors Manual to the Program Oriented Accounting System The Budgetary Process

Fall 1972

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PREFACE

The purpose of this manual is to serve the needs of a data processing facility in the operation of the Management Information System (MIS). Included in the manual are system flowcharts, job control language, and system documentation.

It is intended that this manual be used in conjunction with the Administrator's Manual to the Program Oriented Accounting System. Reference must be made to the Administrator's Manual for system design, definitions, and theoretical aspects of system implementation. Samples, a description of the input documents, as well as output reports are also available in the Administrator's Manual.

The system has been field tested and operates under IBM System 360/Model 65-05-MVT-HASP. The programming language is ANS-COBOL.

I wish to acknowledge the programming and technical contributions of A. Marsh, J. Traeger, T. Reed, B. Clark, and P. Hensel to the creation and development of the Management Information System.

Gordon G. Harr

TABLE OF CONTENTS

			Page
Table of Figures			
Chapter I	Production Budget Processing		1
	Processing Footnotes/Turnaround Savers		3
Chapter II	Job Stream Pictorial Layout		4
	FIBUDCUP	Initial Run	4
	FIBUDCUP	Updates Run	5
	BSELECT/BPROCATE		6
	FIBUDLST		7
	SFOLST		8
	SCH21		9
	SCHLST		10
	FISELECT		11
	VENDRLST		12
	SALRYLST		13
Chapter III	Job Control Language		14
	FIBUDCUP		14
	BSELECT		15
	BPRORATE		16
	FIBUDLST		17
	SFOLST		18
	SCH21		19
	SCHLST		20
	FISELECT		21
	VENDRLST		22
Chapter IV	Program Narrative and Corresponding Flow-chart		23
	FIBUDCUP		23
	BSELECT		49
	BPRORATE		52
	FIBUDIST		57
	SFOLST		61
	SCH21		122
	SCHLST		137
	FISELECT		152
	VENDRLST		167
	SALRYLST		169
Appendix A	Input/Output Layout		170

TABLE OF FIGURES

			Page
Figure	1	FIBUDCUP-Initial	4
	2	FIBUDCUP-Update	5
	3	BSELECT-BPRORATE	6
	4	FIBUDLST	7
	5	SFOLST	8
	6	SCH21	9
	7	SCHLST	10
	8	FISELECT	11
	9	VENDRLST	12
	10	SALRYLST	13
	11	SCH21-Card Layout	173
	12	FIBUDLST Card Layout	176
	13	BSELECT-BPRORATE Card Layout	179
	14	SCHLST Card Layout	181
	15	SFOLST Card Layout	183
	16	Budget File Card Layout	185
	17	Control Card. FIBUDCUP	189
	18	Budget master record layout	190
	19	SALRYLST-VENDRLST Card Layout	191
	20	FISELECT JCL	192
	21	FISELECT Card Layout	193

CHAPTER I

PRODUCTION BUDGET PROCESSING

The purpose of this processing memo is to provide the processing procedural steps to generate the school district budget file and all computer generated listings desired by the requesting school district.

The update file is processed through a sort utility to sequence the updates in ascending order on the program account code. Two methods of inputting updates may be employed, card image input and disk file input. This job stream sequence is noted by (*1) and (*1A) on the budget processing pictorials.

At the time an initial run is made for any school district all data set names are made up of the following:

BUDGET FILE;

Dxxxx.	xxxx identifies district number
FBxx.	xx identifies fiscal year
Bxx.	xx identifies run number initial run being 01

UPDATES FILE;

Dxxxx.	xxxx identifies district number
FBxx.	xx identifies fiscal year
Uxx.	xx identifies run number initial run being 01

During the course of making succeeding runs the run number will be increased accordingly.

CARD UPDATE INPUT (*1 - JOB STREAM)

*1 Does not require a data set name. This situation occurs only when the update file input does not require preprocessing through the BSELECT and BPRORATE programs.

*2 The data set name must be updated to reflect and identify the update run number.

*3 At the time of the initial run of budget file creation this should be a DUMMY file as it is never opened during processing. During succeeding runs this data set run number normally should be one increment less than current run number. For example if the district is making their third budget run this data set name will be

Dxxxx. FBxx. B02

*4 There are three files created by a budget run. One is the current budget detail file and the other two are print files. The data set name for the budget detail file should again contain the district number, the fiscal year and run number current by being executed. For example if the budget run is run number four the data set name should end in B04.

*5 The format of the run parameter card and it's respective fields are explained on the multiple card layout form marked RUN PARAMETER CARD. Four field's of that card layout are critical and if punched incorrectly may cause abnormal abending of the FIBUDCUP step.

1. The fiscal year field, columns 1-2 are used to reject new updates with a fiscal year less than that punched. For example if budget runs are being run for year 1973-74 the policy is to punch 74 in all fiscal year fields. This then when processed by the program will screen out all updates with a fiscal year less than 74.
2. The number punched in columns 70-72 is used as a school number reject source. This number is one digit higher than any school ID number that may be processed in the file. The program will accept all updates with a school I. D. number that is numeric and less than this number.
3. The field 73-75 is current number of the run. This must be updated when successive runs are made.
4. The field located in column 76 is used as a flag and is a double check on the run number. If run number one is being run this field must contain a (1) For all other successive runs this field must contain a (2).

DISK FILE UPDATE INPUT (*1A - JOB STREAM)

With this type of input the SORTIN DD card will be punched to reflect the file or files to processed. If input date was processed by the BSELECT and BPRORATE programs it may be necessary to concatenate input data sets. All other job stream flags (*2-*5) are the same as Card Update Input.

PROCESSING FOOTNOTES/TURNAROUND SAVERS.

1. Printed output may be estimated at 2 1/2 - 3 lines per record on file. At the end of the detail budget listing there will be printed a recap of the records on file. Two totals are listed, one for the number of erased records or X's records and the other is the total number of records active and deleted remaining on file.

2. For initial runs on a district it might be desired to check for rejects that occur during processing prior to generating the total detail listing on three part paper. There could be several reasons for this type of shortcut processing. On initial runs it may be for checking a district's coding accuracy or it might be to check keypunching accuracy. On final runs it may be for correcting all coding or keypunching errors due to finality of reports needed for scheduled meetings.

   All records are displayed in file sequence as they are processed. Rejected card image records, if they occur, will be interspersed in this same file sequence nowever they will be prefixed by some error message.

   For example:
   BAD FUND 73A0100010420011309<u>99</u> card image where the underlined characters are in error. If there seem to be an over preponderance of errors then processing may be halted after this job for the purpose fo correcting input data.
   During final runs all data must be clean so that dollar totals match test figures supplies by the school district.
   The printed detail listings may be bypassed by inserting DD DUMMY JCL in the appropriate sequence.

3. Any of the printed listings may be printed on standard one part printer paper as another way of improving turnaround for checking purposes.

JOB STREAM PICTORIAL LAYOUT

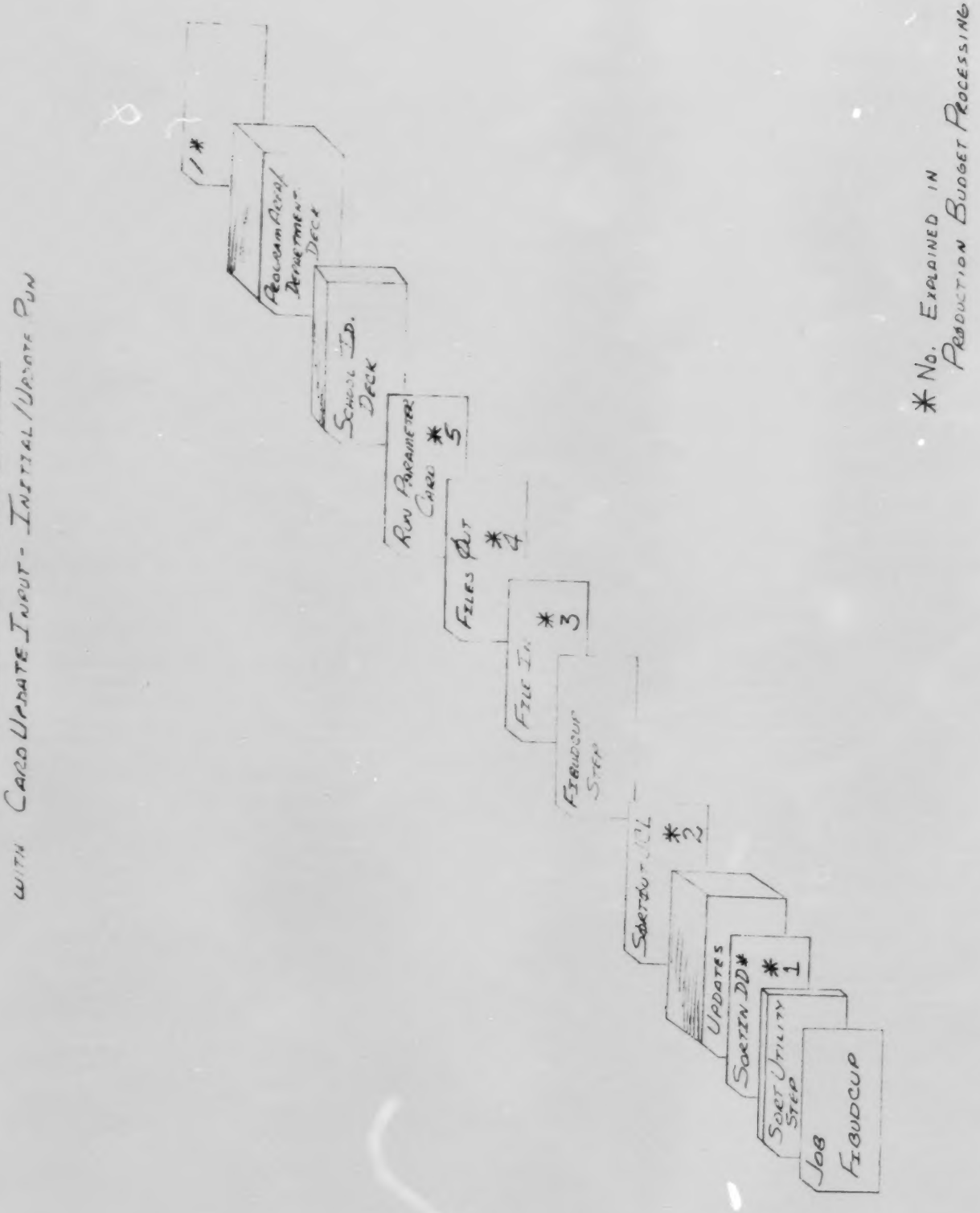
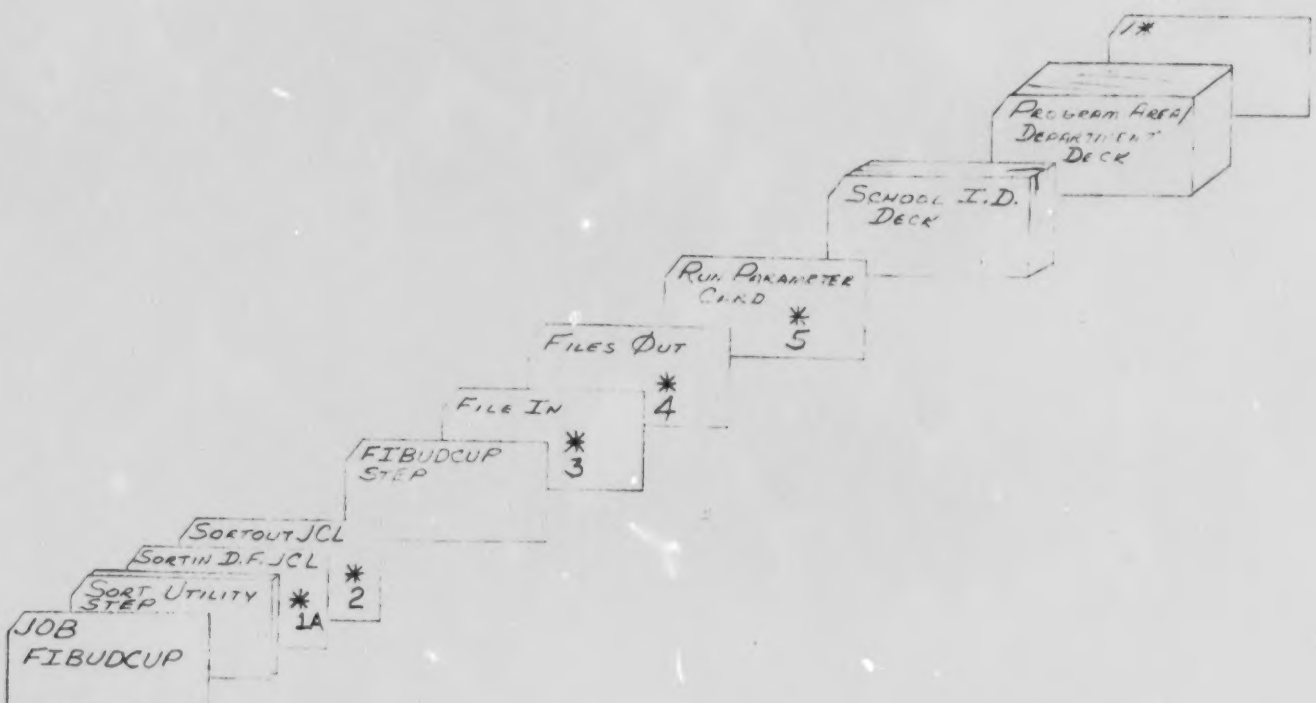


Figure 1

BUDGET FILE PROCESSING

WITH DISK FILE UPDATE INPUT - INITIAL/UPDATE RUN



* No. - Explained in Production Budget Processing

Figure 2

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Figure 3

* NON-SELECTED RECORDS FROM BSELECT AND GENERATED BREAKOUT RECORDS FROM BPRORATE ARE CONCATENATED TO BE SORTIN FILE FOR SORT UTILITY OF BPRORATE JOB.

BUDGET FILE PROCESSING

FIBUDLST SUMMARIES

(A). FILE MAY BE FROM:
CURRENT BUDGET FILE,
FROM FISE.EST JOB,
FROM PRECEDING SORT STEP.

(B) RUN PARAMETER CARD DESIGNATES
REPORT SEQUENCE, CONTROL BREAKS,
SELECTED SEGMENTS OF BUDGET.

Figure 4

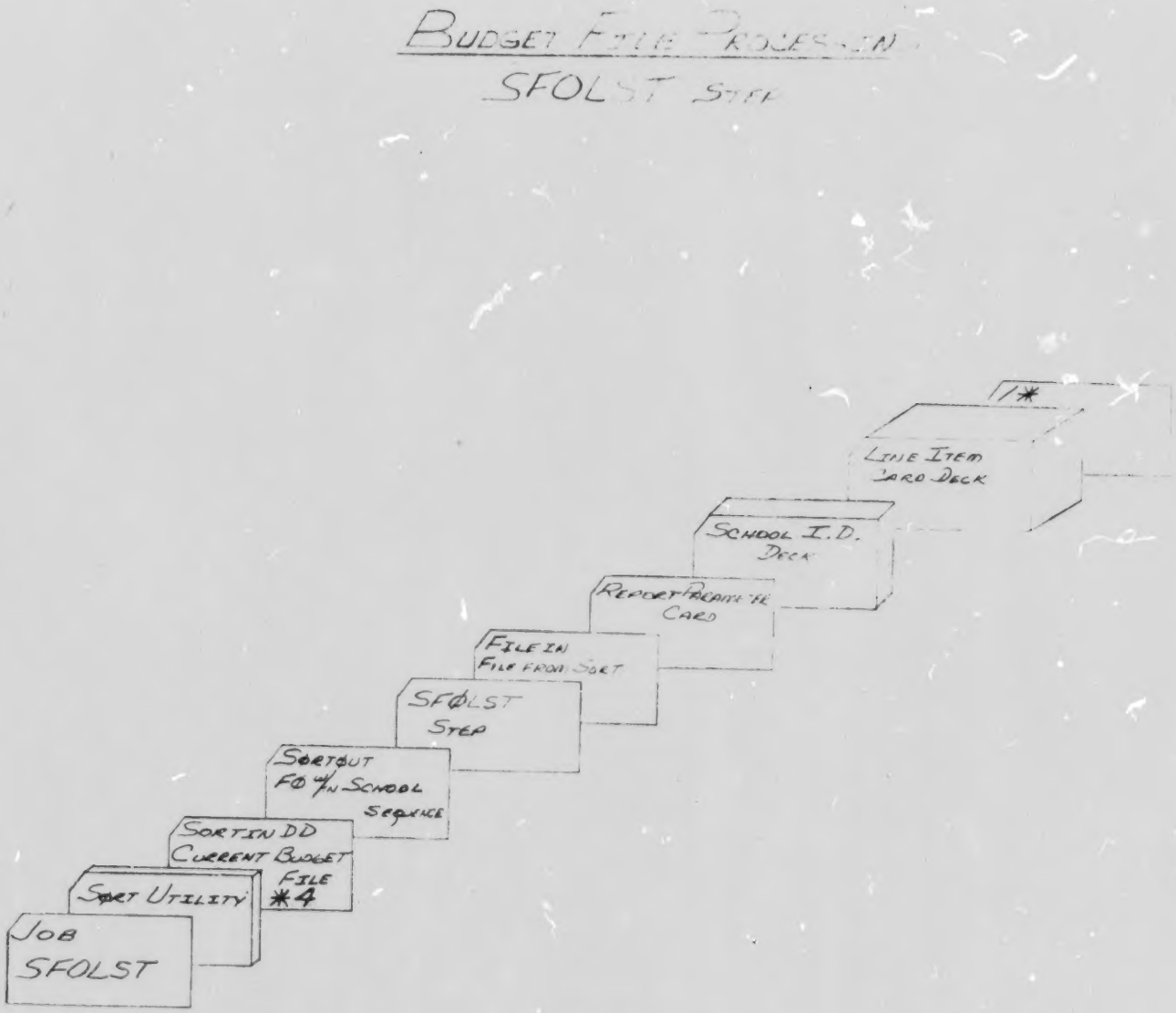

BUDGET FILE PROJECTION
SFOLST STEP
JOB
SFOLST
SORT UTILITY
SORT IN DD
CURRENT BUDGET
FILE
#4
SORT OUT
FD #N-SCHOOL
SEQUENCE
SFOLST
STEP
FILE IN
FILE FROM SORT
REPORT PRODUCING
CARD
SCHOOL I.D.
DECK
LINE ITEM
CARD DECK
1*

Figure 5

BUDGET FILE PROCESSING

TRADITIONAL BUDGET LISTS

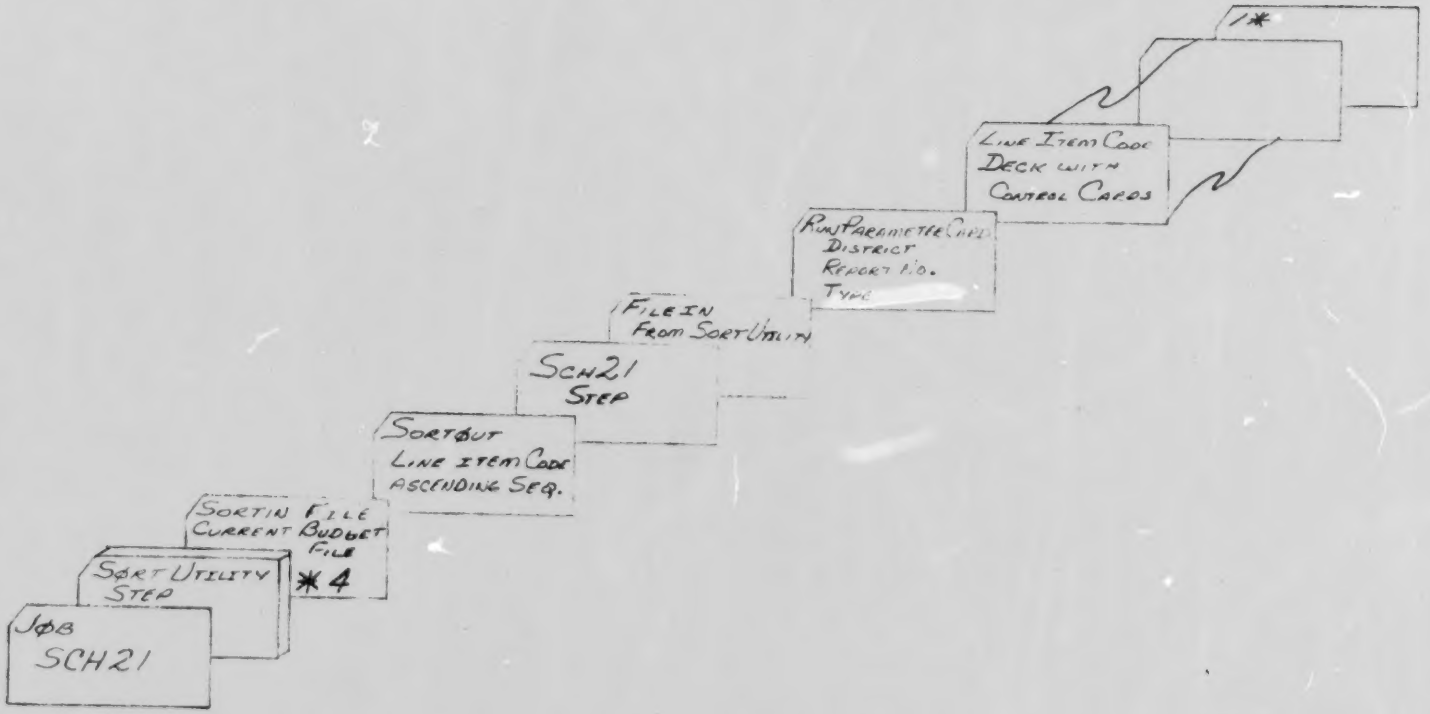
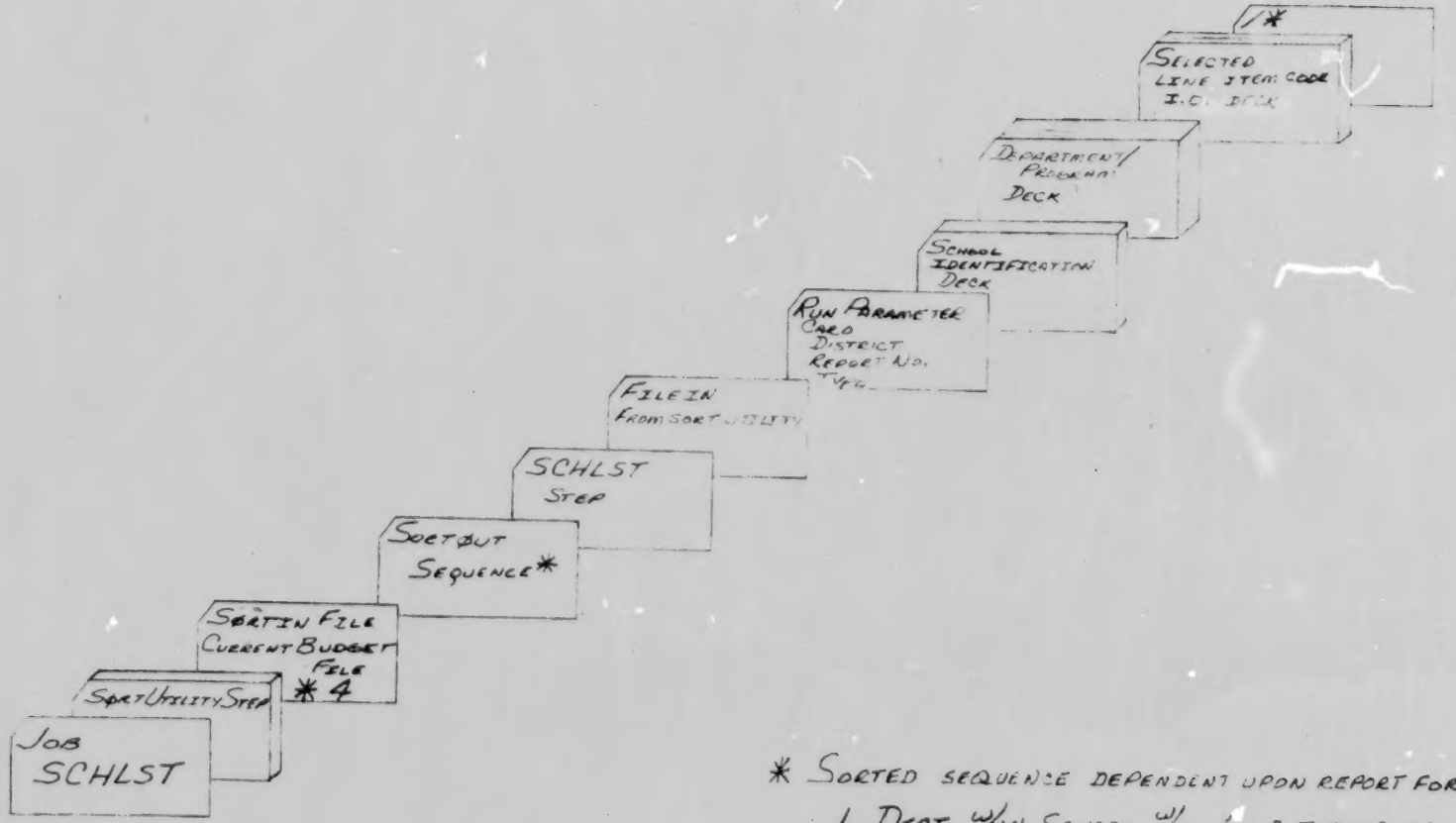


Figure 6

Budget File Processing

Supplemental Analysis Lists



* Sorted sequence dependent upon report format.
1. Dept. w/in School w/in Line Item Code.
2. Vendor No. w/in School w/in Line Item Code

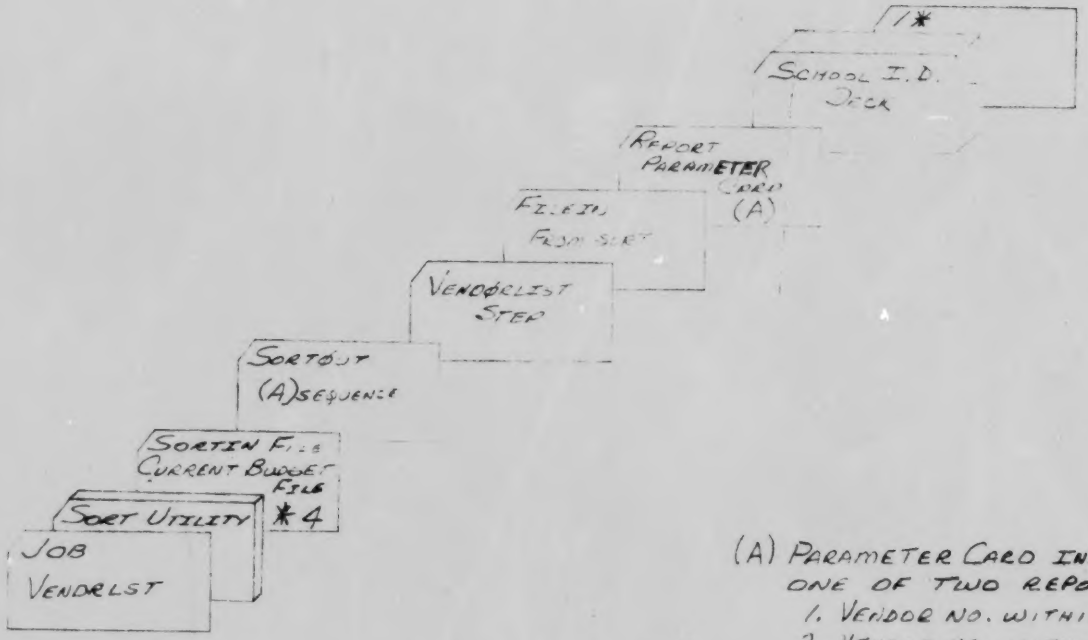
Figure 7

BUDGET FILE PROCESSING
FISELECT STEP
JOB
FISELECT
FILE IN
CURRENT BUDGET
FILE
RULES
CARD DECK
FILE OUT
SELECTED
RECORD
FILE
/*

Figure 8

BUDGET FILE PROCESSING

VENDRLST STEP

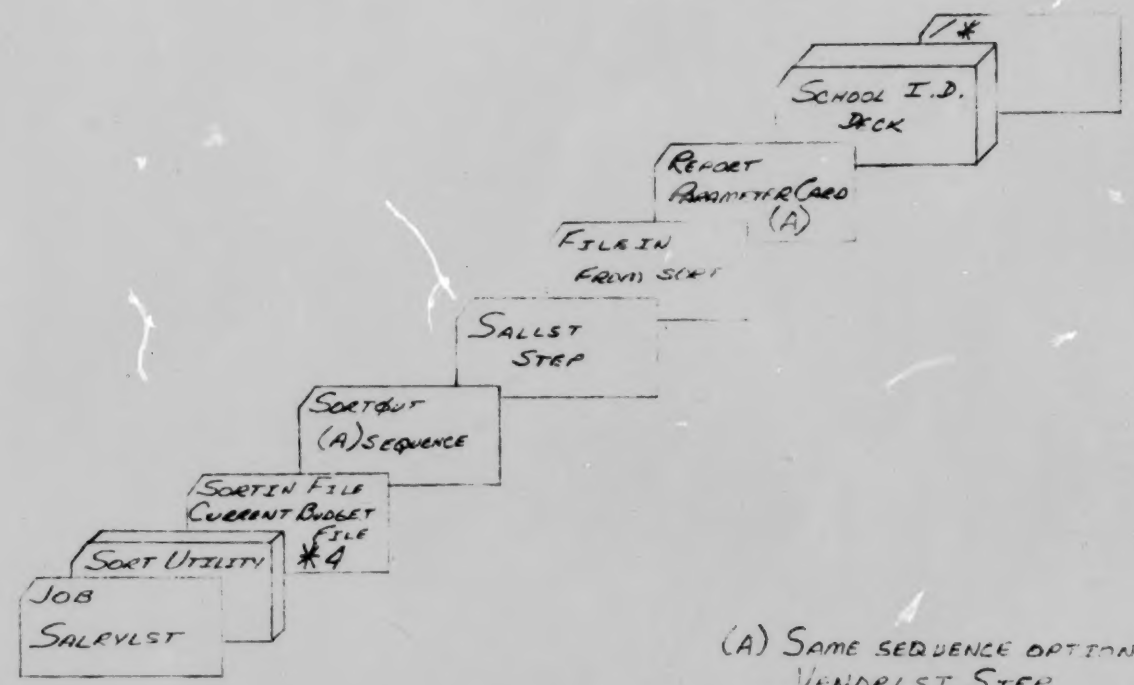


(A) PARAMETER CARD INDICATES ONE OF TWO REPORTS:
1. VENDOR NO. WITHIN SCHOOL
2. VENDOR NO. WITHIN DISTRICT

Figure 9
17

BUDGET FILE PROCESSING

SALRYLST STEP



(A) SAME SEQUENCE OPTION AS VENDRLST STEP

Figure 10

CHAPTER III

JOB CONTROL LANGUAGE

```
//FIBUDCUP JOB (XXXXXXXX,36,,1003),'NAME-CREATE-UPDATE BUDGET-FILE'
//JOBLIB DD DSN=EMISLIB,DISP=SHR
//FICUP EXEC SORTD,REGION=128K,PARM='CORE=102400,MSG=AP'
//SORTIN DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,DELETE,KEEP),DSN=NSELREC
//    DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,DELETE,KEEP),DSN=SELREC
//SORTOUT DD UNIT=2314,VOL=SER=PACK,DISP=(NEW,KEEP),
//    DCB=(RECFM=FB,LRECL=80,BLKSIZE=7280),SPACE=(TRK,(XXX,X),RLSE),
//    DSN=UPDATESFILE
//SYSIN DD *
 SORT FIELDS=(1,21,A),FORMAT=CH
 END
/*
//FICP EXEC PGM=FIBUDCUP,TIME=3,REGION=98K
//BUDREC DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,KEEP),DSN=UPDATESFILE
//INBUD DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,KEEP),DSN=OLDBUDFILE
//OTBUD DD UNIT=2314,VOL=SER=PACK,DISP=(NEW,KEEP),
//    DCB=(RECFM=FB,LRECL=121,BLKSIZE=7260),SPACE=(TRK,(XXX,X),RLSE),
//    DSN=NEWBUDFILE
//ILIST DD SYSOUT=C
//DLIST DD SYSOUT=D
//SYSOUT DD SYSOUT=A
//PCARD DD *

    DATA DECK FOLLOWING SEQUENCE
       1. RUN PARAMETER CARD
       2. SCHOOL NAME DECK
       3. PROGRAM AREA (DEPT.) CARD DECK

/*
```

```
/BSEL JOB (XXXXXXXX),'NAME-SELECT RECORDS FOR RPRORATE'
/JOBLIB DD DSN=EMISLIB,DISP=SHR
/SORTFIN EXEC SORTD,REGION=128K,PARM='CORE=102400,MSG=AP'
/SORTIN DD *

  BUDGET UPDATES DECK

*
/SORTOUT DD UNIT=2314,DISP=(NEW,KEEP),VOL=SER=PACK,
/    DCB=(RECFM=FB,LRECL=80,BLKSIZE=7280),SPACE=(TRK,(XXX,X),RLSE),
/    DSN=DATASETNAME
/SYSIN DD *
SORT FIELDS=(1,21,A),FORMAT=CH
END
*
/RESEL EXEC PGM=BSELECT,TIME=2,REGION=40K
/RIN DD UNIT=2314,DISP=(OLD,KEEP),VOL=SER=PACK,DSN=DATAIN
/OUT DD UNIT=2314,DISP=(NEW,KEEP),VOL=SER=PACK,
/    SPACE=(TRK,(XXX,X),RLSE),DCB=(RECFM=FB,LRECL=80,BLKSIZE=7280),
/    DSN=SELREC
/ROT DD UNIT=2314,DISP=(NEW,KEEP),VOL=SER=PACK,
/    SPACE=(TRK,(XXX,X),RLSE),DCB=RECFM=FB,LRECL=80,BLKSIZE=7280),
/    DSN=NSELREC
/SYSOUT DD SYSOUT=A
/CIN DD *

     MASTER CONTROL NUMBER DECK

*
```

```
//RPFU JOB (XXXXXXXX,14),'NAME-PRORATE COSTS SEL RECORDS'
//JOBLIB DD DSN=EM!SLIB,DISP=SHR
//RPRC EXEC PGM=PRORAT,TIME=3,REGION=82K
//RCIN DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,DELETE,KEEP),DSN=SELREC
//ROUT DD UNIT=2314,VOL=SER=PACK,DISP=(NEW,KEEP,DELETE),
//    SPACE=(TRK,(XXX,X),RLSE),DCB=(RECFM=FB,LRECL=80,BLKSIZE=7280),
//    DSN=RCPRC
//SYSOUT DD SYSOUT=A
//RCARDS DD *

      MASTER CONTROL NUMBER BREAKDOWN DECK

/*
```

```
//FIBUDLST JOB (XXXXXXXX),'NAME--BUDGET LISTS'
//JOBLIB DD DSN=EMISLIB,DISP=SHR

    MESSAGE---- IN SOME CASES A UTILITY SORT IS NEEDED BEFORE A RUN.
                THIS OCCURS WHEN THE DESIRED LIST IS NOT IN THE SAME ORDER
                AS NEWBUDFILE.

//FIBDLT EXEC PGM=FIBUDLST,TIME=5,REGION=
//UFILE DD UNIT=2314,DISP=OLD,VOL=SER=PACK,DSN=NEWBUDFILE
//DLIST DD SYSOUT=A
//SYSCUT DD SYSOUT=A
//CARDIN DD *

    DATA DECK AS FOLLOWS
       1. PROGRAM AREA (DEPT.) DECK
       2. SCHOOL DECK
       3. REGULAR RUN PARAMETER CARDS
       4. EXPENDITURE RUN PARAMETER CARDS

/*
```

```
//HASPLIST JOB (--------,14,CCCB,,,1),'[illegible] ON LIST'

//LIST JOB (3531FCCC,F,SS),'TCM REEL - [illegible]'
THIS DECK RELEASES TC TCM REEL


          SAMPLE JCL AND JCB SET-UP FOR PROGRAM SFCLST (FROM LIBRARY)

//SFCLST JCB (CCCCCCCC,5,,2CC1,5),'M'RSH-MISFIN'
//JCBLIB DD DSN=FM1SLIB,DISP=SHR
//SCRTFIN EXEC SCRTC,REGION=128K,PARM='CCIE=1024CO,MSG=/P'
//SCRTIN DD UNIT=231[illegible],VOL=SER=IETC1C,
//    DCB=(LRECL=121,BLKSIZE=7260,RECFM=FB),DISP=(OLD,KEEP),
//  DSN=D314[illegible].FB73.R[illegible]
//SCRTOUT DD UNIT=2314,DISP=(NEW,PASS),DSN=&SFCLSRT,
//  DCB=(RECFM=FB,LRECL=121,BLKSIZE=726[illegible]),SPACE=(CYL,(10,1),RLSE)
//SYSIN DD *
 SCRT FIELDS=(3,2,CH,A,5,3,CH,A,27,7,CH,A),SIZE=ESA[illegible]
 END
/*
//SFCLST EXEC PGM=SFCLST,REGION=7[illegible]K
//SYSOUT DD SYSOUT=A,DCB=(LRECL=8[illegible],BLKSIZE=8[illegible])
//PRINTOUT DD SYSOUT=[illegible]
//SCHLFILE DD DISP=(OLD,DELETE),DSN=&SFCSRT
//CARDFILE DD *
     ==> INSERT SFCLST PROGRAM CONTROL CARD HERE <==
     ==> INSERT SCHOOL ID CARDS HERE <==
     ==> INSERT SCHOOL FUNCTION/OBJECT DECK HERE <==
/*
```

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```
//SCH21 JOB (XXXXXXXX,14,,9),'NAME-DETAILED DIST. COMP. BUDGET'
//JOBLIB DD DSN=EMISLIB,DISP=SHR
//    EXEC SORTD,REGION=128K,PARM='CORE=102400,MSG=AP'
//SORTIN DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,KEEP),DSN=NEWBUDFILE
//SORTOUT DD UNIT=2314,VOL=SER=PACK,DISP=(NEW,KEEP),
//    DCB=(RECFM=FB,LRECL=121,BLKSIZE=7260),SPACE=(TRK,(XXX,X),RLSE),
//    DSN=SORT21
//SYSIN DD *
 SORT FIELDS=(27,7,A),FORMAT=CH
 END
/*
//S21LST EXEC PGM=SCH21,TIME=2,REGION=74K
//FFIL DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,DELETE),DSN=SORT21
//PFILA DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//FORC DD *

    DATA DECK FOLLOWING SEQUENCE
       1. PARAMETER CARD
       2. LINE ITEM CODE TITLE DECK

/*
```

```
//FISCH JOB (XXXXXXXX,14,,9),'NAME-DETAIL ANALYSIS LISTINGS'
//JOBLIB DD DSN=EMISLIB,DISP=SHR
//    EXEC SORTD,REGION=128K,PARM='CORE=102400,MSG=AP'
//SORTIN DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,KEEP),DSN=NEWBUDFILE
//SORTOUT DD UNIT=2314,VOL=SER=PACK,DISP=(NEW,KEEP),
//    DCB=(RECFM=FB,LRECL=80,BLKSIZE=7280),SPACE=(TRK,(XXX,X),RLSE),
//    DSN=SRTLST
//SYSIN DD *
 SORT FIELDS=(27,7,A,5,3,A,8,4,A),FORMAT=CH
 END
/*
//SLST EXEC PGM=SCHLST,TIME=2,REGION=44K
//FFIL DD UNIT=2314,VOL=SER=PACK,DISP=(OLD,KEEP),DSN=SRTLST
//PFILA DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//FORC DD *

    DATA DECK FOLLOWING SEQUENCE
       1. PARAMETER CARD
       2. SCHOOL NAME DECK
       3. PROGRAM AREA (DEPT.) DECK
       4. F.O. TITLE DECK

/*
```

CHAPTER IV
PROGRAM NARRATIVE AND CORRESPONDING FLOWCHART

MIS FINANCE

Budget Update/Create (FIBUDCUP)

The purpose of this program is to create and update a school district's item budget file that will eventually be used as input to the district's expenditure system.

This program maintains a sequential master file in program account code sequence, formats a Proposed Budget Item List and a Proposed Budget Item Delete Lists as printed output.

As input the program uses the following files:

1. Parameter Card
2. Organizational Identification Deck.
3. Program Area Identification Deck.
4. Previously Created Master Budget File.

This program is fifth in processing sequence. The steps preceding are:

1. Utility Sort.
2. Master Record Select.
3. Master Record Proration.
4. Utility Sort/Merge.

The steps that follow this run are:

1. Summary Listing.
2. Line Item Budget Listing.
3. Line Item School Budget Comparison Listing.

```
//VENDOR JOB (XXXXXXXX),'NAME-VENDOR LISTS'
//JOBLIB DD DSN=EMISLIB,DISP=SHR
//SORTVEND EXEC SORTD,REGION=128K,PARM='CORE=102400,MSG=AP'
//SORTIN DD UNIT=2314,DISP=OLD,VOL=SER=PACK,DSN=NEWBUDFILE,
//    DCB=(RECFM=FB,LRECL=121,BLKSIZE=7280)
//SORTOUT DD DISP=(NEW,KEEP),UNIT=2314,VOL=SER=PACK,
//    DCB=(RECFM=FB,LRECL=121,BLKSIZE=7260),SPACE=(TRK,(XXX,X),RLSE),
//    DSN=1.BYVEND.2.BYSCHOOL
//SYSIN DD *
    1 =SORT FIELDS=(5,3,A,34,4,A,7,6,A),FORMAT=CH
    2=SORT FIELDS=(34,4,A,7,6,A),FORMAT=CH
/*
//VENDOR EXEC PGM=VENDRLST,TIME=5
//OTLIST DD SYSOUT=A
//BFILE DD UNIT=2314,DISP=OLD,VOL=SER=PACK,DSN=BY.VEND.BY.SCH
//SYSOUT DD SYSOUT=A
//PCARD DD *

    DATA DECK AS FOLLOWS
       1. RUN PARAMETER CARD
       2. SCHOOL ID CARD DECK
/*
```

```
//BUDPULL JOB (XXXXXXXX,10),'NAME-SELECT RECORDS'                    21
//SELCTPRG EXEC PGM=FISEL,TIME=3,REGION=50K
//BUDIN DD DISP=(OLD,KEEP),UNIT=2314,VOL=SER=PACK,DSN=NEWBUDFILE
//PULLOUT DD DISP=(NEW,KEEP),UNIT=2314,SPACE=(CYL,(XX,X),RLSE),
//    VOL=SER=PACK,DSN=SELCTFIL
//SYSOUT DD SYSOUT=A
//SYSIN DD *

    DATA CARD/S PULL RECS CARDS

/*
```

MIS - FINANCE
BUDGET FILE CREATE/UPDATE (FIBUDCUP)

The purpose of this program is to create a districts' budget file from card image records converted from forms F-FI-1, F-FI-2, F-FI-4 and F-FI-5.

The end-product, from creation through update, is a file containing all requests from personnel of a school district that encompasses the resources needed to satisfy the educational goals for the coming cycle.

The file is on ascending sequence of the program account code supplemented by the three digit sequence number. The records contain the program account code, pertinent demographic data of this item, cost of the item, line-item account code and the department name identifier.

The program accesses records for updating, builds new records, flags deleted records and in some special cases erases records from the file. A detail listing is generated of active items and deleted items based on the program account code and totals are taken on the basis of course/activity number, department/program area number and organizational identification number. Dollar changes are reflected in a district total page.

As input the program uses:

1. Parameter run cards
2. School I. D. cards
3. Program area/department name cards
4. Card image update file
5. Previous budget file (other than run #1)

As output this program produces:

1. New budget file
2. Proposed budget item list
3. Deleted budget item list

This program may fall in two different processing sequences. If the incoming updates are not to be processed through the BSELECT and BPRORATE steps it is second in processing sequence behind a utility sort. If the aforementioned prorate steps must be accomplished, then it is run with a utility sort that will concatenate the non-selected records and the prorated records files.

The resulting file from FIBUDCUP then is ready to be processed through any number of steps normally with the FIBUDLST coming next.

ETBJDOUP

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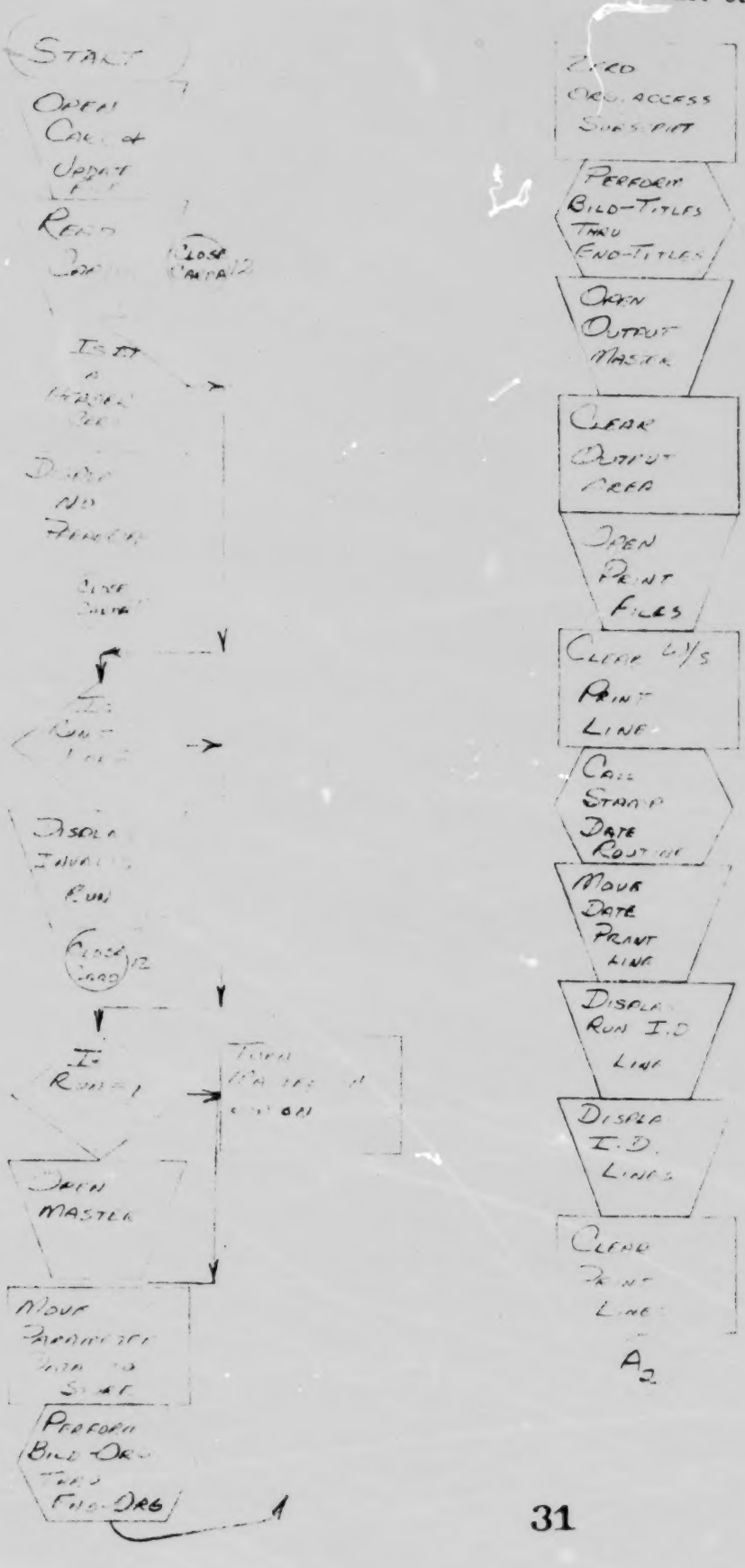
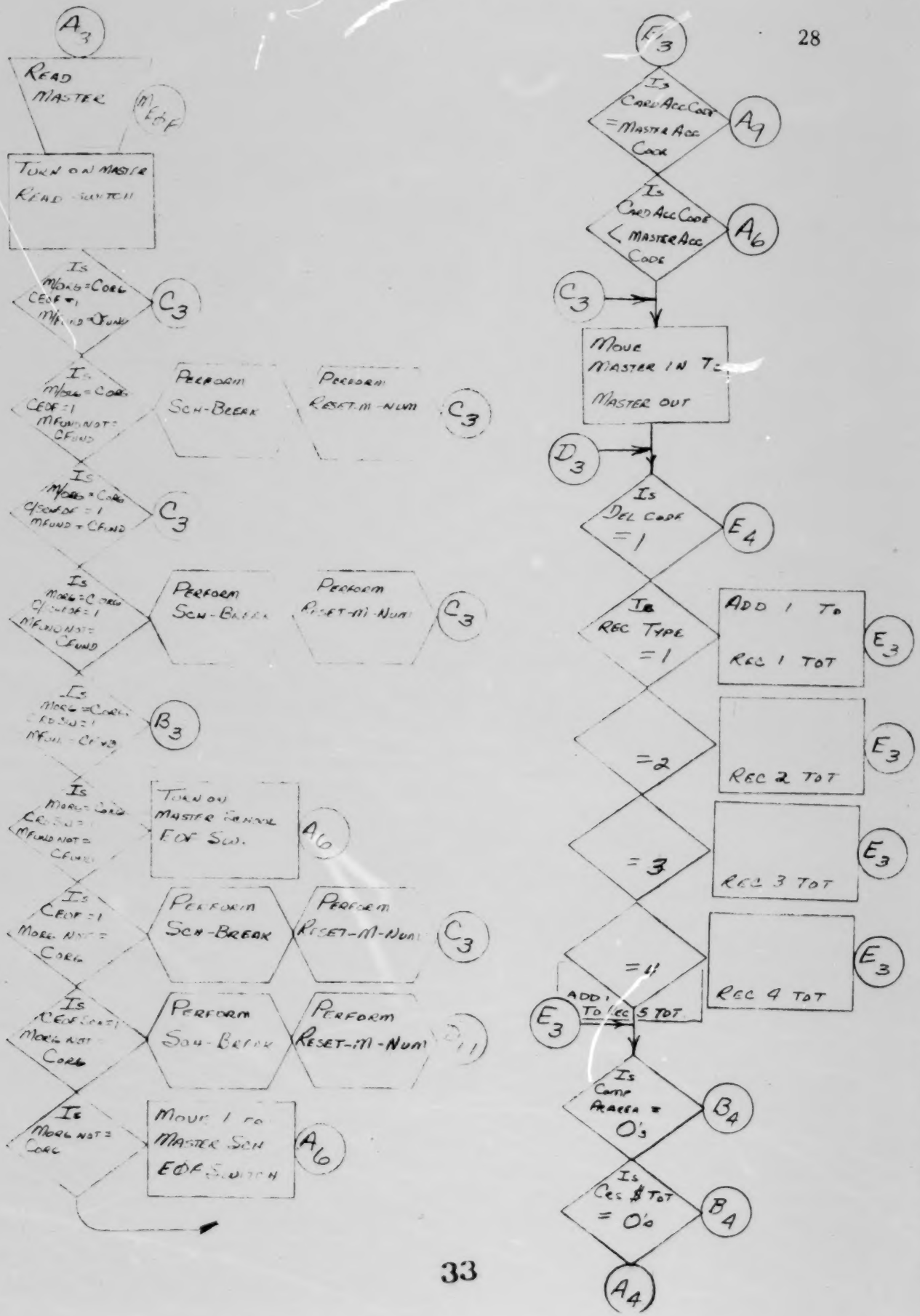


A2
READ UPDATE FILE
EOF
EXAMINE ACCOUNT CODE FOR 'b'
IS ACC. CODE NOT NUM.
DISPLAY ERROR
IS FISCAL YR < PRESENT
DISPLAY ERROR
IS IT VALID FUND
DISPLAY ERROR
IS IT VALID ORGAN.
DISPLAY ERROR
IS IT VALID PROG.
DISPLAY ERROR
IS IT VALID PROG. AREA
DISPLAY ERROR
READ - REGIN - A
MOVE 1 FOR GOOD REC 0 FOR BAD
DISPLAY ERROR IF FOUND
EDIT ALL NUMERIC FIELD
EDIT FINISH
B2
MOVE CARD ACCOUNT CODE TO SAVE
IS MASTER EOF ON
READ MASTER
MOVE MASTER KEY
SWITCH
IS MASTER ACC < CARD ACC
TURN ON CARD SCHOOL TEMP. EOF SWITCH MOVE MAST ACCT TO COMPARE
1
3
IS MASTER ACC > CARD ACC
TURN ON MASTER SCHOOL TEMP. EOF SWITCH TURN ON SCHOOL FIRST TIME SWITCH
A6
MOVE MASTER ACCOUNT CODE TO COMP. AREA
B3


A3
READ MASTER
M EOF
TURN ON MASTER READ SWITCH
Is MACC = CARD CEOF = 1 MFUND = CFUND
C3
Is MACC = CARD CEOF = 1 MFUND NOT = CFUND
PERFORM SCH-BREAK
PERFORM RESET-M-NUM
C3
Is MACC = CARD CEOF = 1 MFUND = CFUND
C3
Is MACC = CARD CEOF = 1 MFUND NOT = CFUND
PERFORM SCH-BREAK
PERFORM RESET-M-NUM
C3
Is MACC = CARD CEOF = 1 MFUND NOT = CFUND
B3
Is MACC = CARD CEOF = 1 MFUND NOT = CFUND
TURN ON MASTER SCHOOL EOF SW.
A6
Is CEOF = 1 MACC NOT = CARD
PERFORM SCH-BREAK
PERFORM RESET-M-NUM
C3
Is CEOF = 1 MACC NOT = CARD
PERFORM SCH-BREAK
PERFORM RESET-M-NUM
C3
Is MACC NOT = CARD
MOVE 1 TO MASTER SCH EOF SWITCH
A6
F3
Is CARD ACC CODE = MASTER ACC CODE
A7
Is CARD ACC CODE L MASTER ACC CODE
A6
C3
MOVE MASTER IN TO MASTER OUT
D3
Is DEL CODE = 1
E4
Is REC TYPE = 1
ADD 1 TO REC 1 TOT
E3
= 2
REC 2 TOT
E3
= 3
REC 3 TOT
E3
= 4
REC 4 TOT
E3
ADD 1 TO REC 5 TOT
E3
Is COMP AREA = 0's
B4
Is CES $ TOT = 0's
B4
A4

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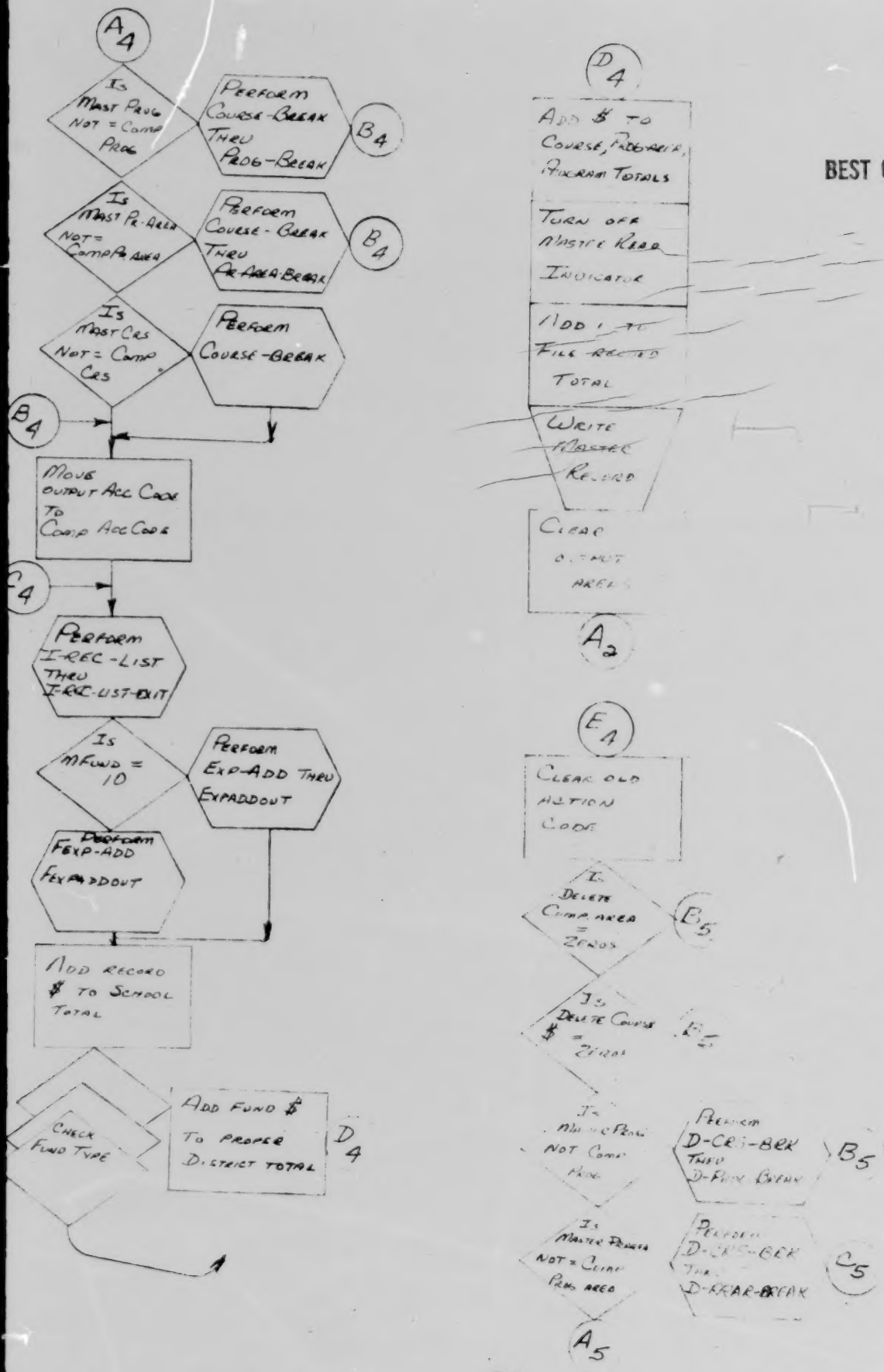
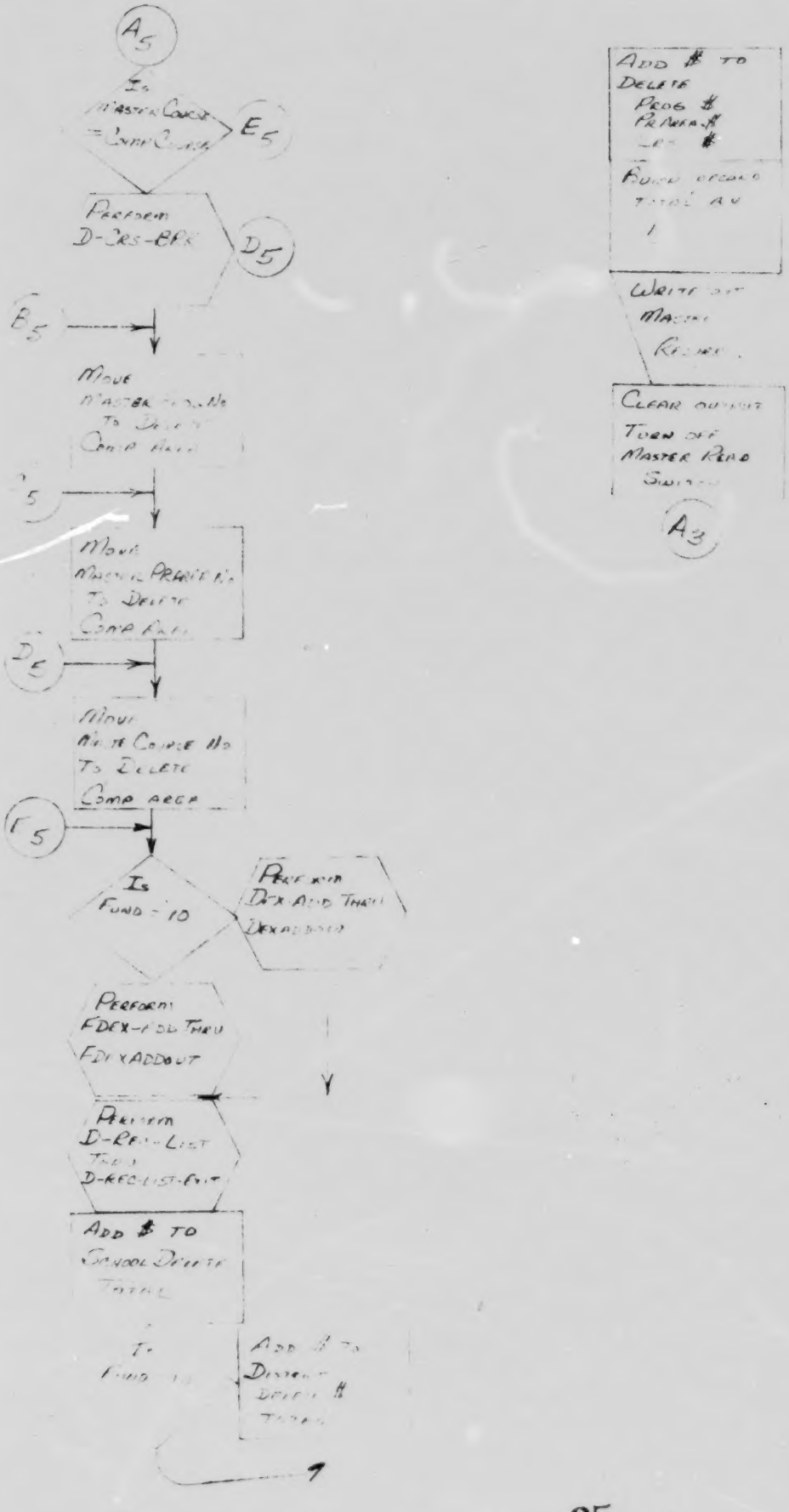
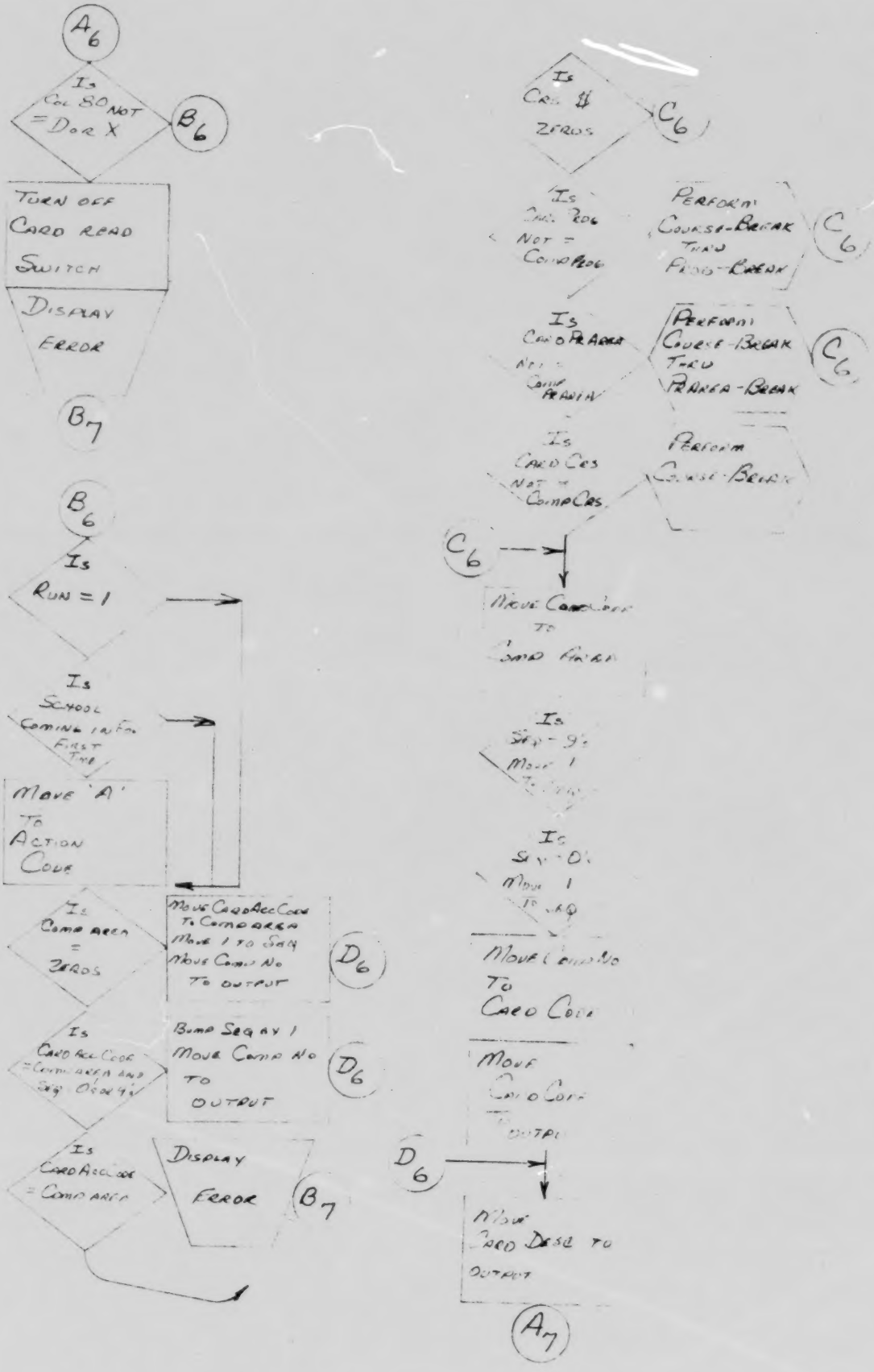
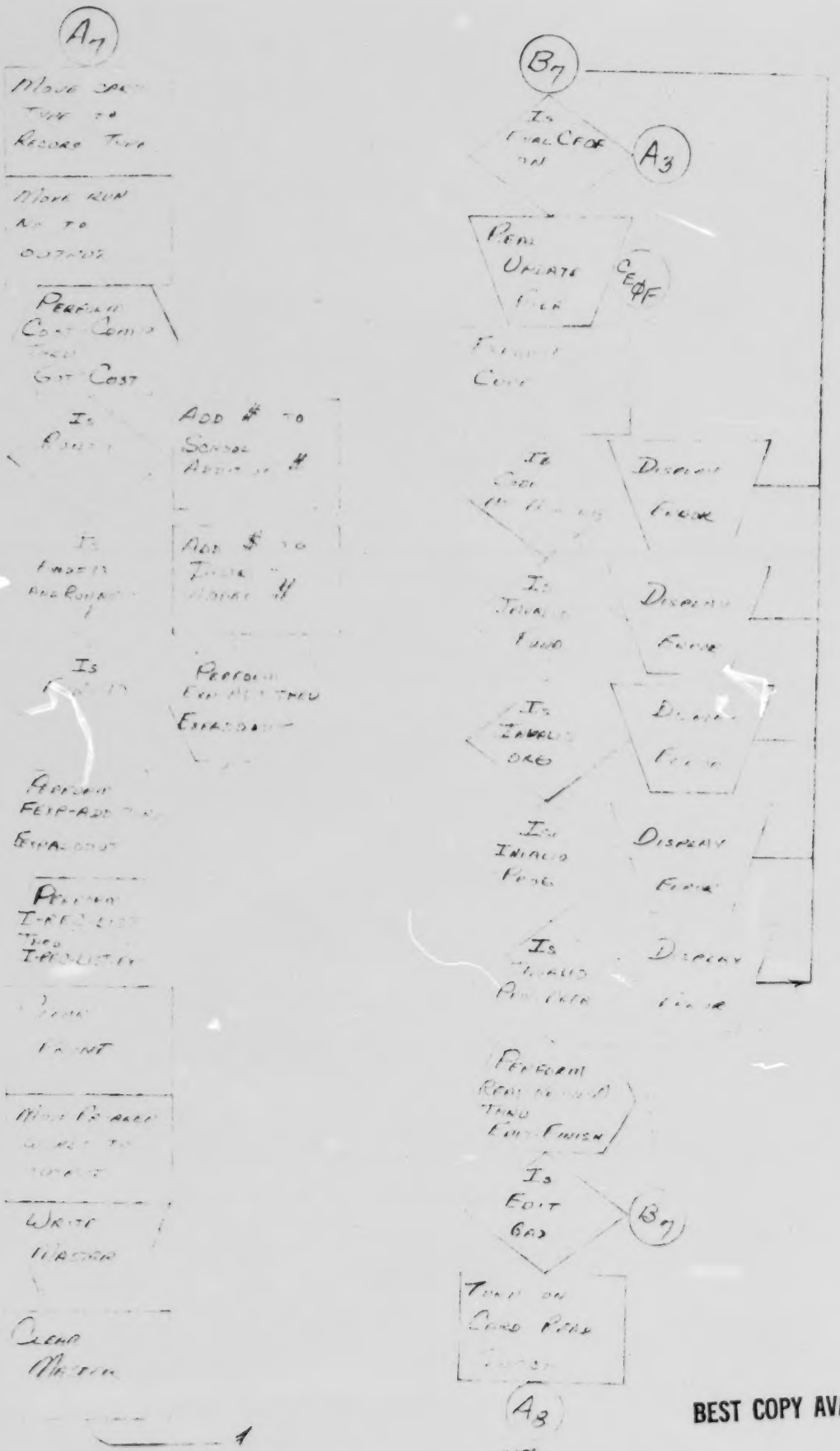



A5
Is
E5
Perform
D5
E5
Move
5
Move
E5
Move
5
Is
Fund = 10
Perform
FDEX-ADD THRU
FDEXADDOUT
Perform
D-REC-LIST
THRU
D-REC-LIST-EXIT
Add # to
School Delete
Total
To
Add # to
Delete #
Total
Add # to
Delete
Prog #
Total Au
1
Write out
Master
Clear output
Turn off
Master Read
A3


A6
Is Col 80 NOT = D or X
B6
Turn off Card Read Switch
Display Error
B7
B6
Is Run = 1
Is School Coming in for First Time
Move 'A' To Action Code
Is Comp Area = Zeros
Move Card Rec Code To Comp Area
Move 1 to Seq
Move Comp No To Output
D6
Is Card Rec Code = Comp Area and Seq Occurs
Bump Seq by 1
Move Comp No To Output
D6
Is Card Rec Code = Comp Area
Display Error
B7
Is Card No Zeros
C6
Is Card No < Not = Comp No
Perform Course-Break Thru Field-Break
C6
Is Card Prog Area Not = Comp Prog Area
Perform Course-Break Thru Prog Area-Break
C6
Is Card Crs Not = Comp Crs
Perform Course-Break
C6
Move Comp Area To Card Prog Area
Is Seq = 9
Move 1 To Seq
Is Seq = 0
Move 1 To Seq
Move Comp No To Card Code
Move Comp Crs Code To Output
D6
Move Card Desc To Output
A7


A7
B7
A3
B7
A3
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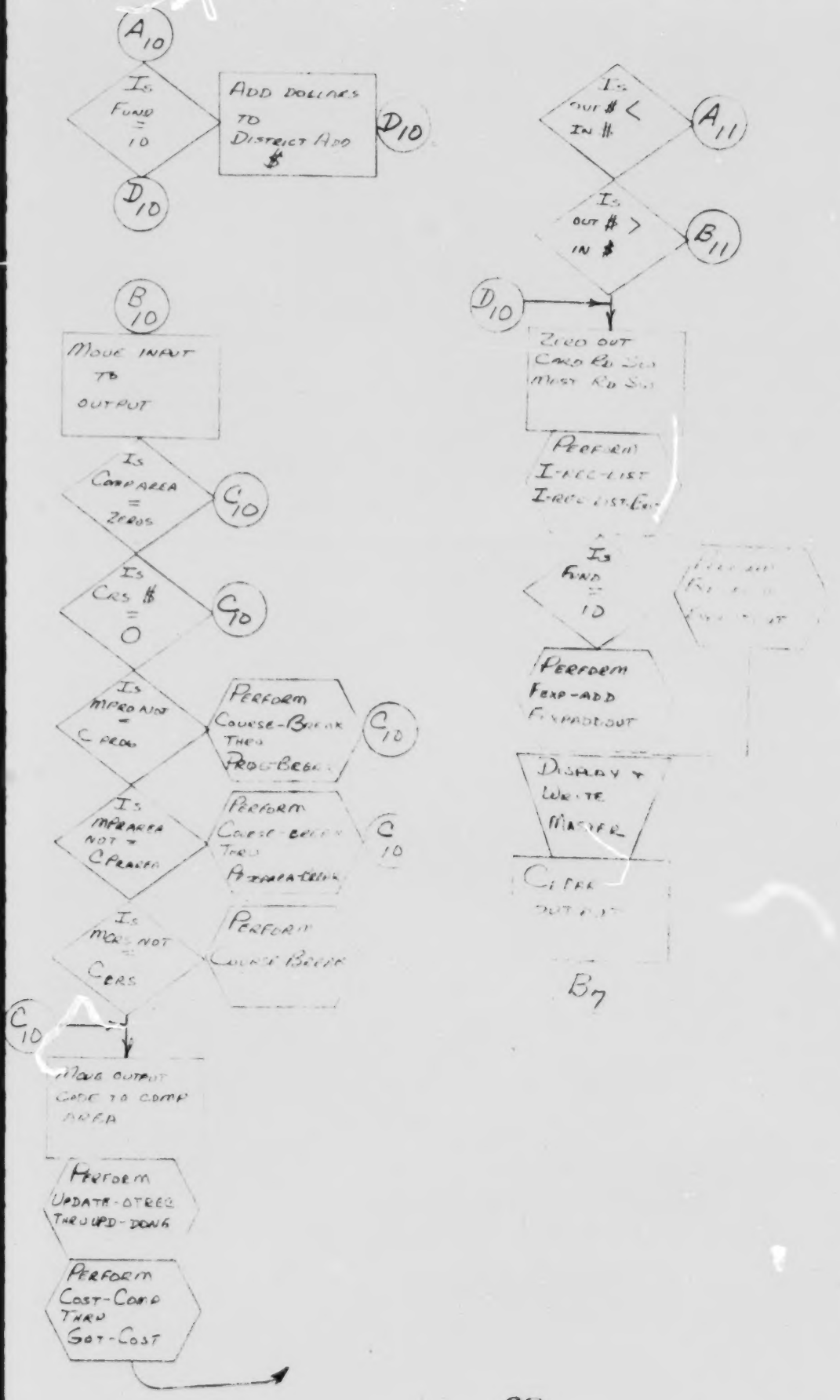
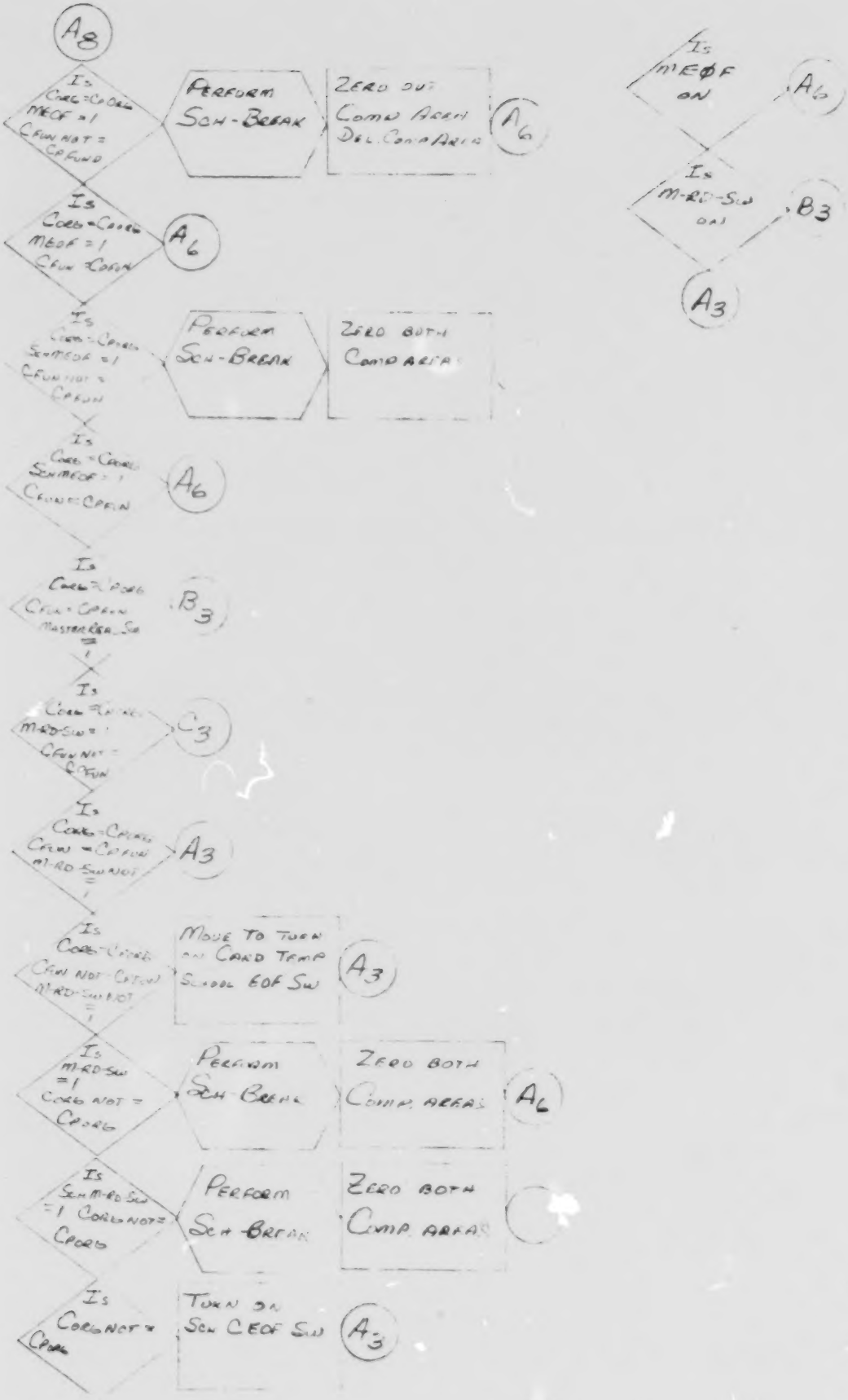

A10
Is Fund = 10
ADD DOLLARS TO DISTRICT ADD $
D10
D10
B10
MOVE INPUT TO OUTPUT
Is COMP AREA = ZEROS
C10
Is CRS # = 0
C10
Is MPRO NUM = C PROD
PERFORM COURSE-BREAK THRU PROG-BREAK
C10
Is MPRAREA NOT = C PRAREA
PERFORM COURSE-BREAK THRU PRAREA-BREAK
C10
Is MPRO NOT = CERS
PERFORM COURSE-BREAK
C10
MOVE OUTPUT CODE TO COMP AREA
PERFORM UPDATE-STREET THRU UPD-DONE
PERFORM COST-COMP THRU GET-COST
Is OUT # < IN #
A11
Is OUT # > IN #
B11
D10
ZERO OUT CARD RD SW MAST RD SW
PERFORM I-REC-LIST I-REC-LIST-EXIT
Is FUND = 10
PERFORM FEXP-ADD FEXP-ADD-EXIT
DISPLAY + WRITE MASTER-REC
C-PER OUT-EXIT
B7

A11
Is Function = I
Move 'D' to Del Code
Move A to Action Code
Move 'D' to Act in Code
Move Run No to Output
Is Function Not =
D10
Compute District Dec
School Dec
D10
B11
Is Del No
Move space to Del Code
Move 'A' to Action
Move 'I' to Action Code
Move Run No to Output
Is Function
D10
Compute District Inc
School Inc
D10
C11
Is Mast-Code Curr = Mcode
Turn off School CEOF MEOF First Time Sw
D11
Is Curr No. CEOF > Mcode
Turn off School MEOF First Time Switch ON CEOF Sw
Perform Reset M Num
C3
Is Curr. < Mast Code > Mcode
Same as Above
Perform Reset M-Num
C3
Is Curr > Mast Code > Mcode
Same as Above
Same
C3
Is Curr > Mast Code = Mcode
Same
Same
C3
Turn off First Time Sw
Zero Curr Rec
Zero School CEOF
Turn on School MEOF Sw
B6
D11
Is Ccode > Mcode
Is Ccode = Mcode
Zero Curr Rec
B3


A8
Perform Sch-Break
Zero out Comd Area
A6
A6
Perform Sch-Break
Zero both Comd Areas
A6
B3
C3
A3
A3
Move to turn on Card Temp School EOF Sw
A3
Perform Sch-Break
Zero both Comp. Areas
A6
Perform Sch-Break
Turn on Sch CEOF Sw
A3
A6
B3
A3

A9
Is Card Del. Sales Info Or EOJ = X
Turn Off Rst+ Read Ind Bump X's Records Total
B7
Is Last Card = Sales Card Keyed And Master Deleted Before
Reactivate Record As Add On This Run
Perform Dot-Cost
A17
Is Col 80 Not = 5
B10
Move Delete Data To Output
Is Del. Card
C9
Is Del Cards # = 0
B9
Is Alphabetic = Del Prod
Perform D-Crs-Rec Thru D-Prod-Exit
B3
Is Alphabetic Not = Del Prod
Perform D-Crs-Rec Thru D-Prod-Exit
B9
Is Master Not = Del Crs
Perform D-Crs-Rec
B9
Is Record Not = Del Prod
Reset Del Comp Area
C9
Is Alphabetic = Del Prod
Reset Del Prod & Crs Comp Area
C9
Is Msg Not = Del Crs
Reset Del Course
C9
Perform D-Rec-List Thru D-Rec-List-Exit
Is Fund = 10
Perform Dex-Add Thru Dexaddout
Perform Dex-Add Thru Dexaddout
Add Cost To Del Prod # Fr Area $ Crs $ Sub Del # Tot
Is Fund = 10
Add # To District Delete #
Bump Record Counter
Write Master
Clear Output
Turn Off Mast-Rd Sw Card Rd Sw
B7

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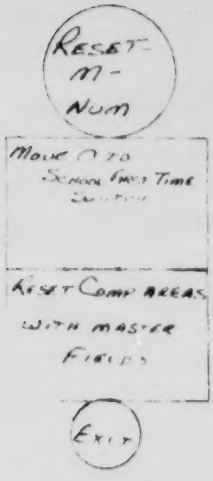
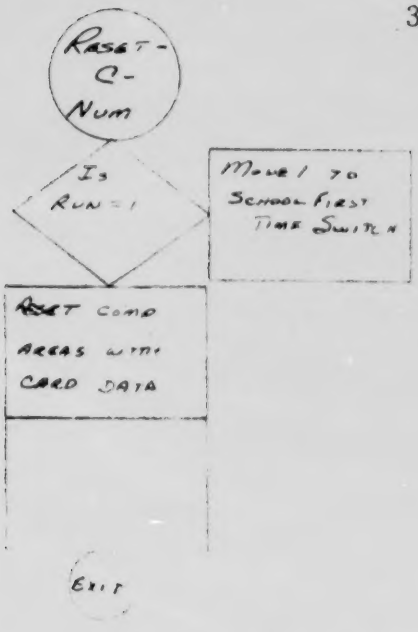
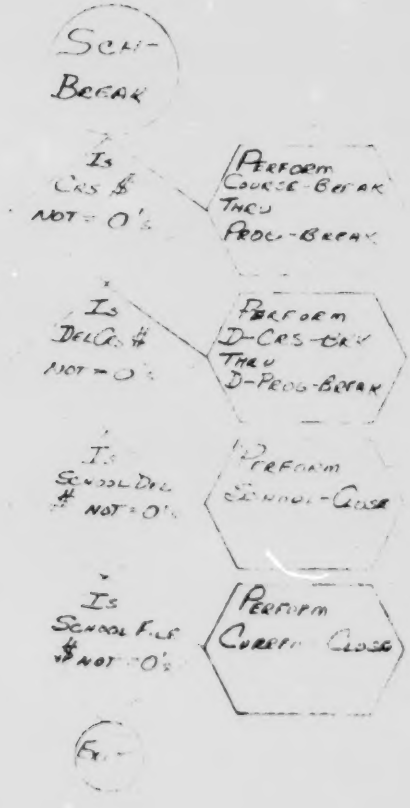
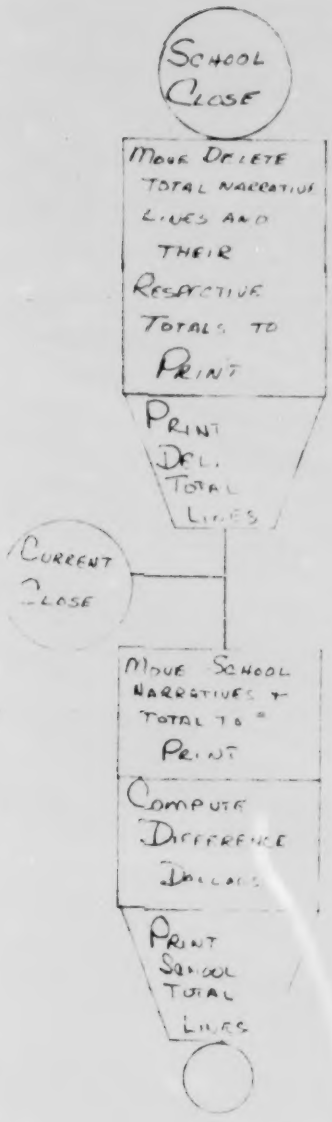
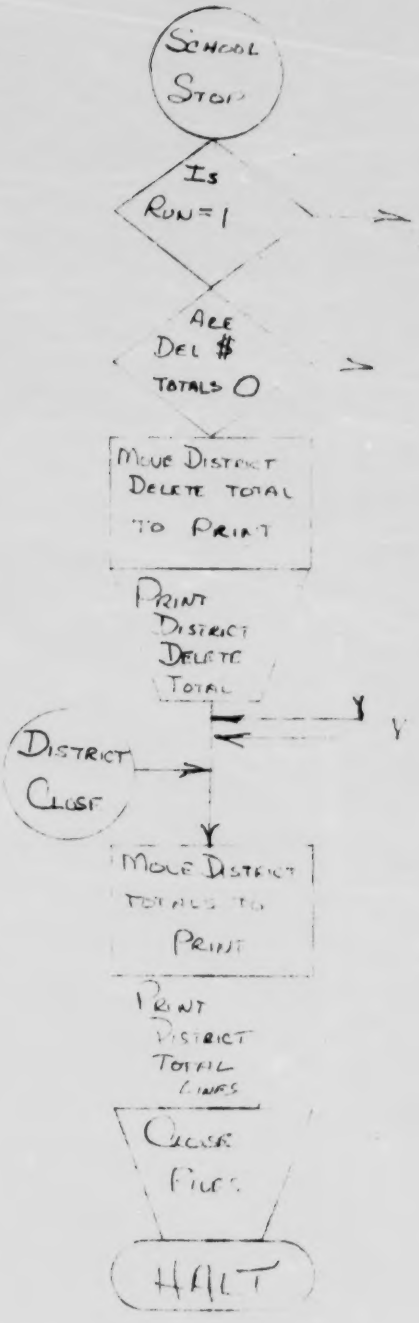
C EØF
TURN ON FINAL CARD EØF
IS MASTER EOF ON
IS SCHOOL M/EØF = 1 M-RD-SW = 1
PERFORM SCH-BREAK TURN OFF SCHOOL MEOF
C3
IS SCHOOL M/MEOF = 1 M-RD-SW NOT = 1
PERFORM SCH-BREAK TURN OFF SCHOOL MEOF
A3
IS M-RD-SW = 1
C3
A3
CLOSE ALL FILES
IS RUN > 1
CLOSE INPUT FILES
CLOSE OUTPUT MASTER UPDATES
CLOSE CARD
M EØF
IS CARD EØF = 1
IS SCH EOF = 1 AND C-RD-SW = 1
PERFORM SCH-BREAK TURN OFF IND
A6
IS SCH EOF = 1 C-RD-SW NOT = 1
PERFORM SCH-BREAK TURN OFF IND
B7
IS C-RD SW = 1
A6
B7
CLOSE CARD
CLOSE CARD
IS CES # NOT = 0's
PERFORM CANCEL-BREAK THRU PROG-BREAK
IS RUN = 1 OR FIRST TIME SW = 1
CURRENT CLOSE
IS DEL CES # NOT = 0's
PERFORM D-CES-BRK THRU D-PROG-BREAK
SCHOOL CLOSE
CLOSE CARDS
CLOSE CARDS
STOP

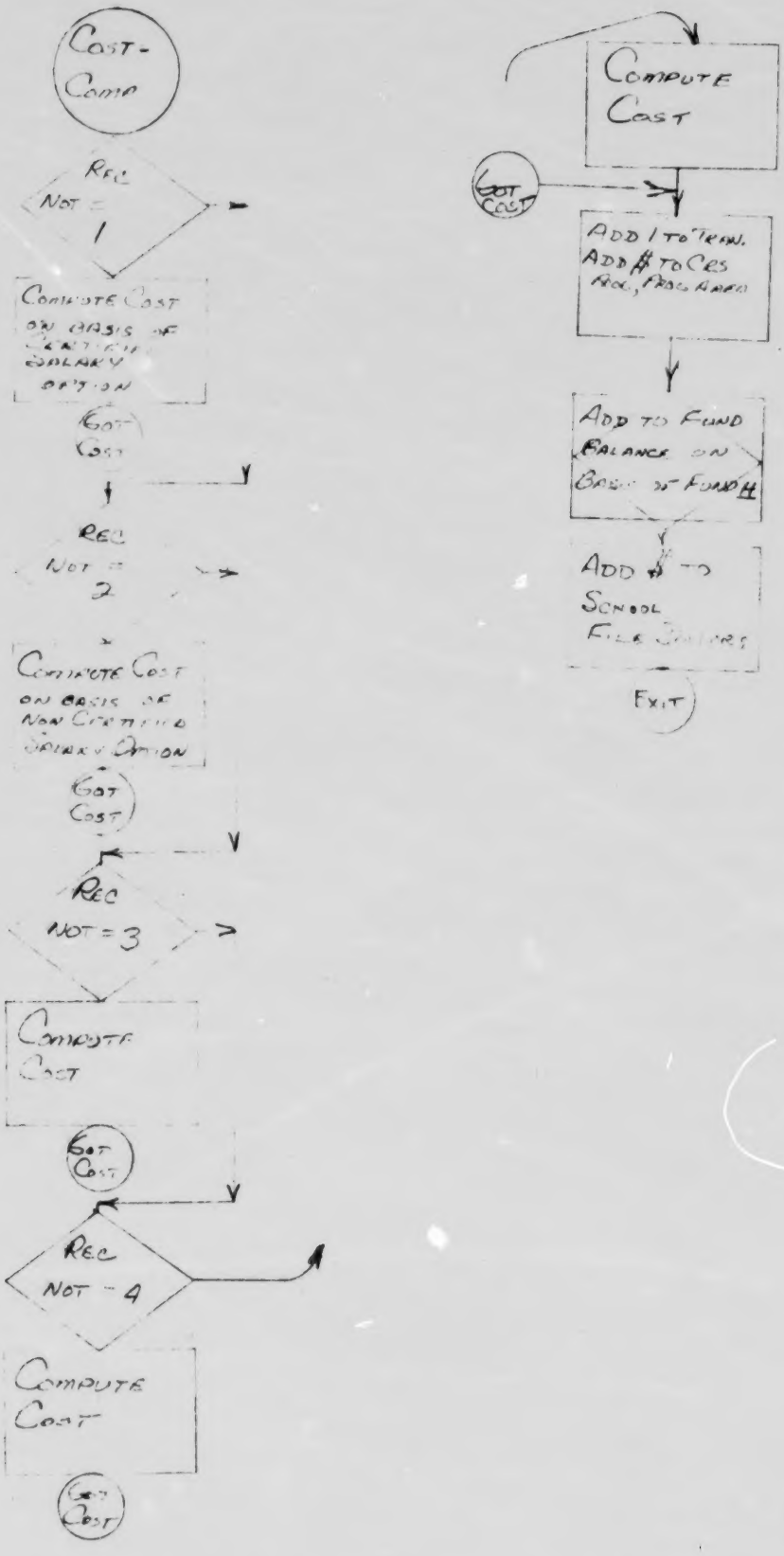

RESET-M-NUM
MOVE 0 TO SCHOOL FIRST TIME SWITCH
RESET COMP AREAS WITH MASTER FIELDS
EXIT


RESET-C-NUM
IS RUN = 1
MOVE 1 TO SCHOOL FIRST TIME SWITCH
RESET COMP AREAS WITH CARD DATA
EXIT


SCH-BREAK
IS CRS # NOT = 0's
PERFORM COURSE-BREAK THRU PROG-BREAK
IS DEL CRS # NOT = 0's
PERFORM D-CRS-BRK THRU D-PROG-BREAK
IS SCHOOL DEL # NOT = 0's
PERFORM SCHOOL-CLOSE
IS SCHOOL FILE # NOT = 0's
PERFORM CURRENT CLOSE
EXIT


SCHOOL CLOSE
MOVE DELETE TOTAL NARRATIVE LINES AND THEIR RESPECTIVE TOTALS TO PRINT
PRINT DEL. TOTAL LINES
CURRENT CLOSE
MOVE SCHOOL NARRATIVES + TOTAL TO PRINT
COMPUTE DIFFERENCE
PRINT SCHOOL TOTAL LINES


SCHOOL STOP
IS RUN=1
ARE DEL $ TOTALS 0
MOVE DISTRICT DELETE TOTAL TO PRINT
PRINT DISTRICT DELETE TOTAL
DISTRICT CLOSE
MOVE DISTRICT TOTALS TO PRINT
PRINT DISTRICT TOTAL LINES
CLOSE FILES
HALT


COST-COMP
REC NOT = 1
COMPUTE COST ON BASIS OF CERTIFIED SALARY OPTION
GOT COST
REC NOT = 2
COMPUTE COST ON BASIS OF NON CERTIFIED SALARY OPTION
GOT COST
REC NOT = 3
COMPUTE COST
GOT COST
REC NOT = 4
COMPUTE COST
GOT COST
COMPUTE COST
GOT COST
ADD 1 TO TRAN.
ADD # TO CES REC, PROG AREA
ADD TO FUND BALANCE ON BASIS OF FUND #
ADD # TO SCHOOL FILE
EXIT

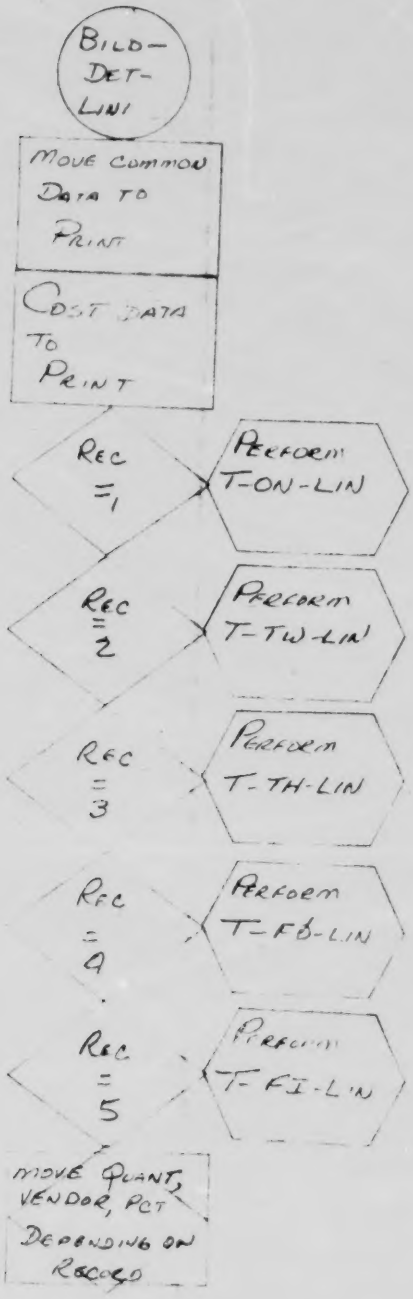


BILD-DET-LINI
MOVE COMMON DATA TO PRINT
COST DATA TO PRINT
REC =1
PERFORM T-ON-LIN
REC = 2
PERFORM T-TW-LIN
REC = 3
PERFORM T-TH-LIN
REC = 4
PERFORM T-FO-LIN
REC = 5
PERFORM T-FI-LIN
MOVE QUANT, VENDOR, PCT DEPENDING ON RECORD

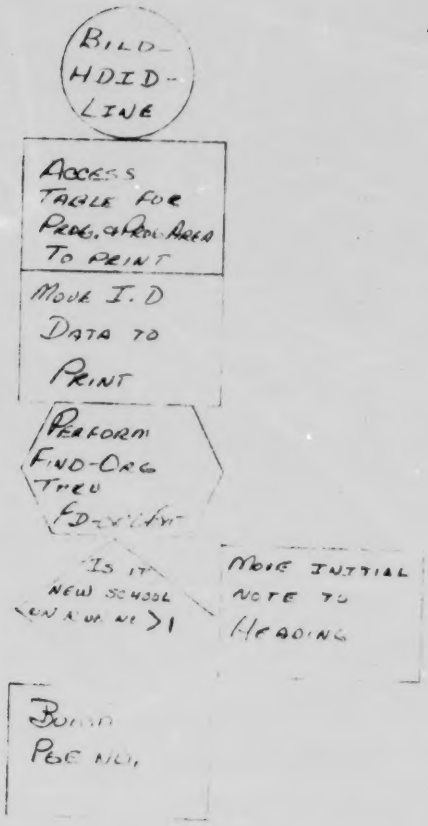


BILD-HDID-LINE
ACCESS TABLE FOR PROG. & PROJ. AREA TO PRINT
MOVE I.D DATA TO PRINT
PERFORM FIND-ORG THRU
IS IT NEW SCHOOL (ON A MAJ NO)
MOVE INITIAL NOTE TO HEADING
BUILD PAGE NO.

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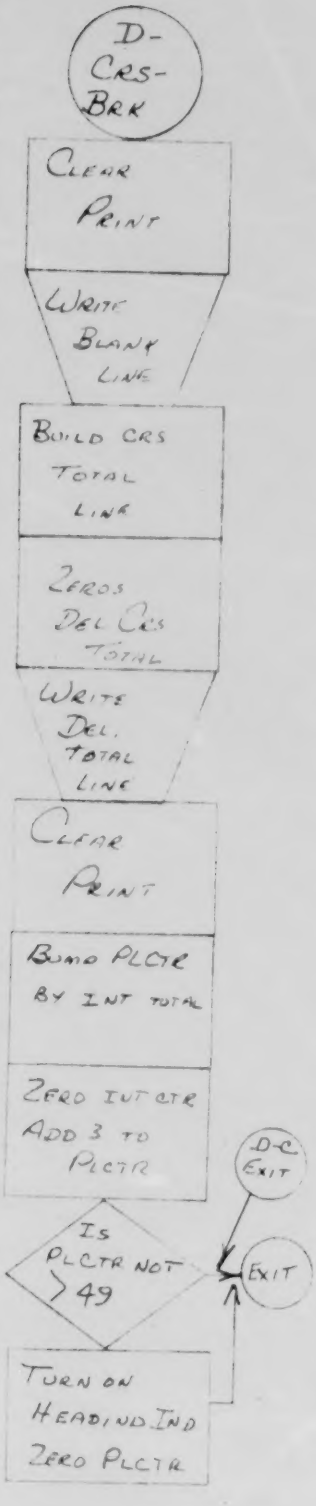
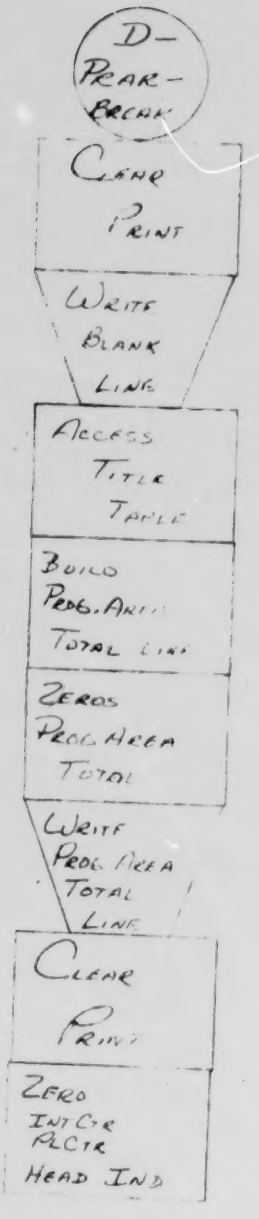
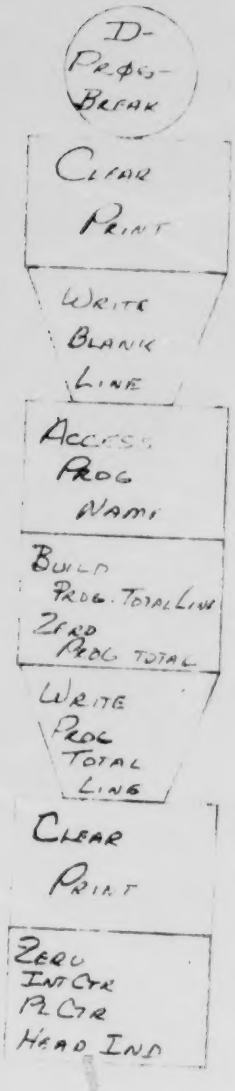

D-CRS-BRK
CLEAR PRINT
WRITE BLANK LINE
BUILD CRS TOTAL LINE
ZEROS DEL CRS TOTAL
WRITE DEL. TOTAL LINE
CLEAR PRINT
BUMP PLCTR BY INT TOTAL
ZERO INT CTR ADD 3 TO PLCTR
IS PLCTR NOT > 49
D-C EXIT
EXIT
TURN ON HEADING IND ZERO PLCTR


D-PRAR-BRCHK
CLEAR PRINT
WRITE BLANK LINE
ACCESS TITLE TABLE
BUILD PROG. AREA TOTAL LINE
ZEROS PROG AREA TOTAL
WRITE PROG AREA TOTAL LINE
CLEAR PRINT
ZERO INT CTR PLCTR HEAD IND


D-PROG-BREAK
CLEAR PRINT
WRITE BLANK LINE
ACCESS PROG NAME
BUILD PROG. TOTAL LINE
ZERO PROG TOTAL
WRITE PROG TOTAL LINE
CLEAR PRINT
ZERO INT CTR PLCTR HEAD IND

D-REC-LIST
IS HD-IND ON
PERFORM D-HD-ROUT TURN OFF IND
PERFORM BLD-DET-LINE
BUMP DLCTR BY 2
WRITE DELETED DETAIL LINE
CLEAR PRINT
IS DLCTR < 50
D EXIT
TURN ON D-HD IND ZERO DLCTR
D EXIT
EXIT
D-HD-ROUT
BUMP DET PCTR
WRITE DEL TITLE LINE
SAVE DEL PCTR
PERFORM BLD-HDG-LINE
MOVE DEL PCTR TO PRINT
BLD SUBSCRIPT AND PULL TITLE
WRITE 3 COL HEADING
RESET PCTR
WRITE COL HDG
CLEAR PRINT
WRITE COL HDG
EXIT

I-REC-LIST
IS ITEM HEADING IND ON
PERFORM I-HD-ROUT TURN OFF IND
PERFORM BILD-DAT-LINE
BUMP LCTR BY 2
WRITE ITEM LINE
CLEAR PRT
IS LCTR < 50
I EXIT
TURN ON ITEM HEADING IND. ZERO LCTR
I EXIT
EXIT
I-HD-ROUT
WRITE TITLE HEADING
PERFORM BILD-HDG-LINE
WRITE 2 COLUMN HEADINGS
CLEAR PRINT
WRITE COLUMN ID
CLEAR PRINT
WRITE BLANK LINE

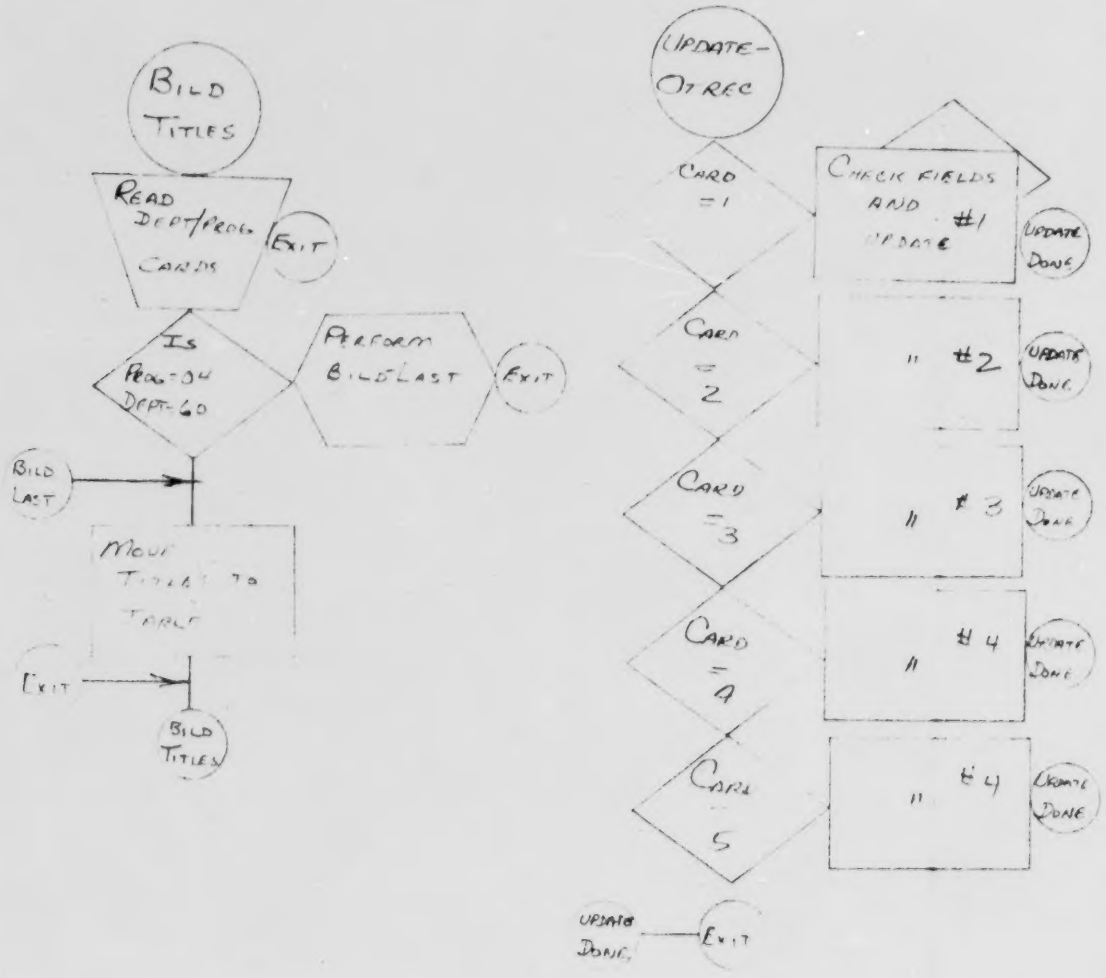
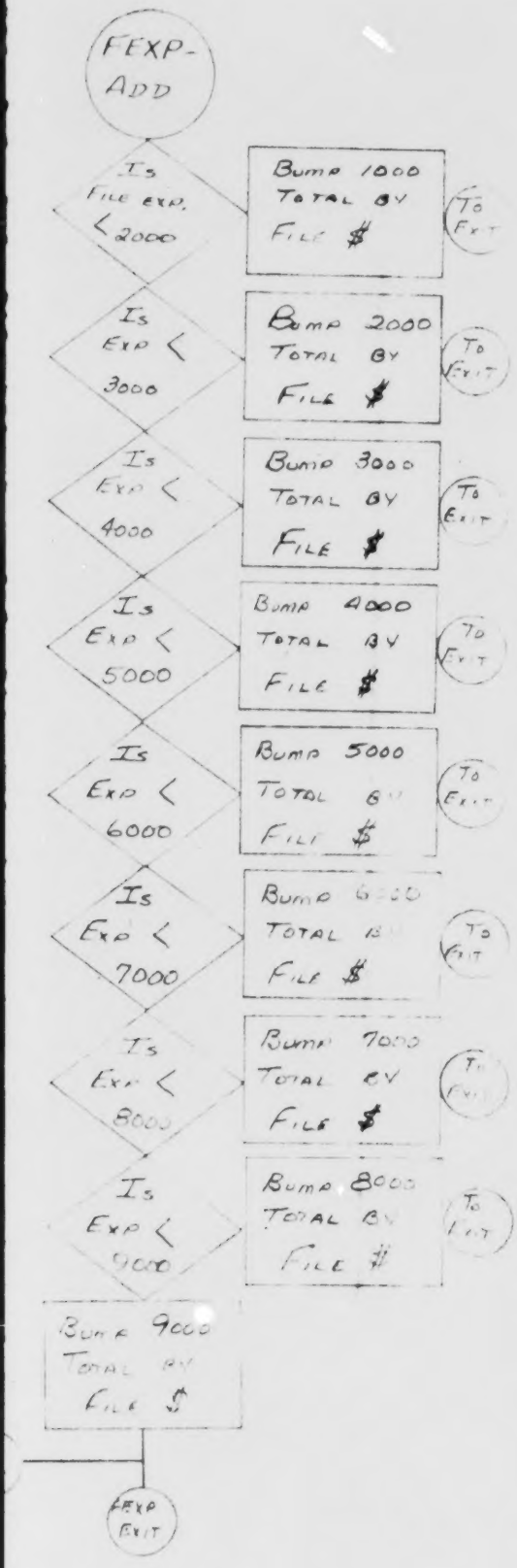
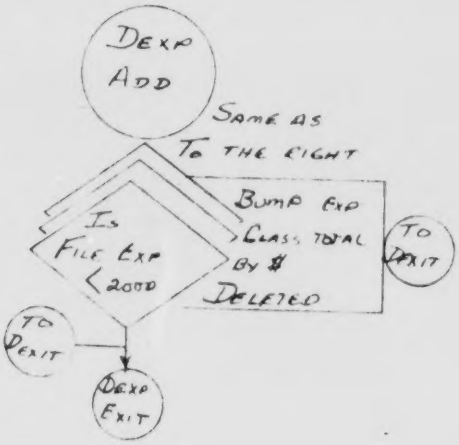
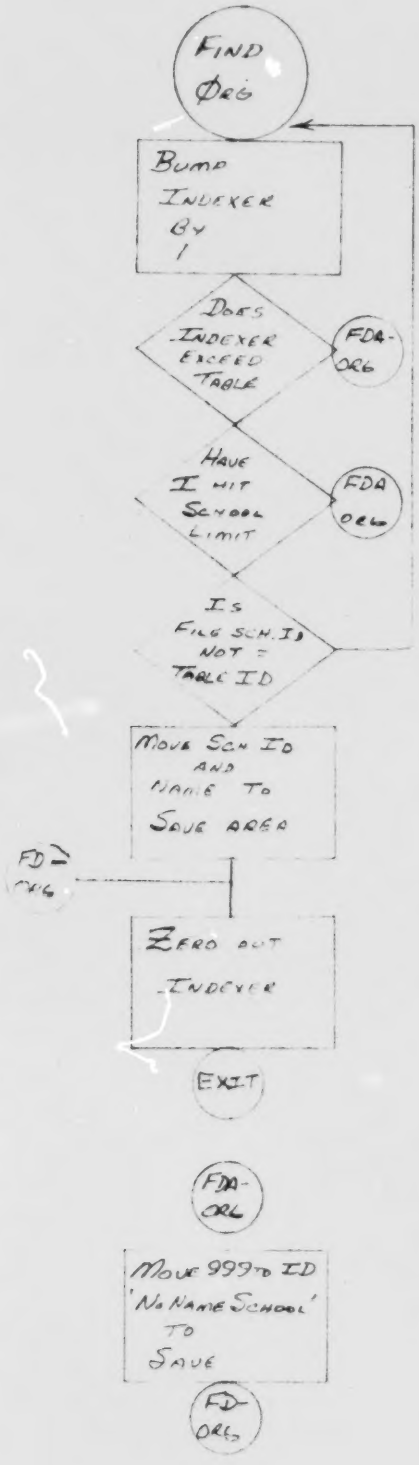


BILD TITLES
READ DEPT/PROG CARDS
EXIT
IS PROG=04 DEPT=60
PERFORM BILD LAST
EXIT
BILD LAST
MOVE TITLES TO PRINT
EXIT
BILD TITLES
UPDATE-OT REC
CARD = 1
CHECK FIELDS AND UPDATE #1
UPDATE DONE
CARD = 2
" #2
UPDATE DONE
CARD = 3
" #3
UPDATE DONE
CARD = 4
" #4
UPDATE DONE
CARD = 5
" #4
UPDATE DONE
UPDATE DONE
EXIT

T-ON-LIN
MOVE REC #1 TO PRINT
T-TW-LIN
MOVE REC #2 TO PRINT
T-TH-LIN
MOVE REC #3 TO PRINT
T-FO. LIN
MOVE REC #4 TO PRINT
T-FI-LIN
MOVE REC #5 TO PRINT


FEXP-ADD
Is File exp. < 2000
Bump 1000 Total by File #
To Exit
Is Exp < 3000
Bump 2000 Total by File #
To Exit
Is Exp < 4000
Bump 3000 Total by File #
To Exit
Is Exp < 5000
Bump 4000 Total by File #
To Exit
Is Exp < 6000
Bump 5000 Total by File #
To Exit
Is Exp < 7000
Bump 6000 Total by File #
To Exit
Is Exp < 8000
Bump 7000 Total by File #
To Exit
Is Exp < 9000
Bump 8000 Total by File #
To Exit
Bump 9000 Total by File #
FEXP Exit


DEXP ADD
Same as To the right
Is File Exp < 2000
Bump Exp Class Total by # Deleted
To Exit
To Exit
DEXP Exit


FIND ORG
BUMP INDEXER BY 1
DOES INDEXER EXCEED TABLE
FDA-ORG
HAVE I HIT SCHOOL LIMIT
FDA ORG
IS FILE SCH. ID NOT = TABLE ID
MOVE SCH ID AND NAME TO SAVE AREA
FD-ORG
ZERO OUT INDEXER
EXIT
FDA-ORG
MOVE 999 TO ID 'NO NAME SCHOOL' TO SAVE
FD-ORG

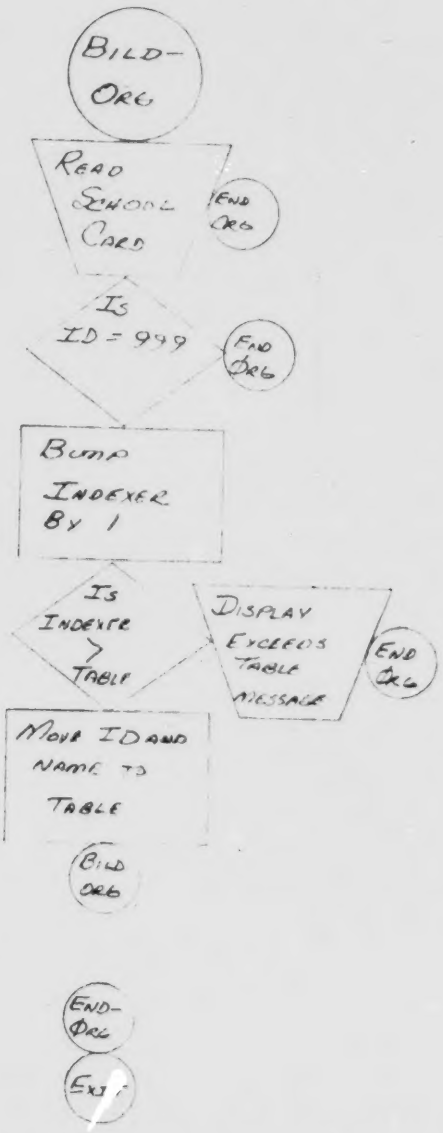


BILD-ORG
READ SCHOOL CARD
END ORG
IS ID = 999
END ORG
BUMP INDEXER BY 1
IS INDEXER > TABLE
DISPLAY EXCEEDS TABLE MESSAGE
END ORG
MOVE ID AND NAME TO TABLE
BILD ORG
END-ORG
EXIT

MIS FINANCE

Master Record Select (BSELECT)

The purpose of this program is to select records from the budget update file that are to be prorated over one or more master numbers. This is done by tabling a series of master control numbers to select any from the update file that match.

As input the program uses the following files:

1. Master Control Number Deck
2. Budget Update File

This program is second in processing sequence. The step that precedes this step is a utility sort to get the update file in ascending sequence by program account code.

The steps that follow are:

1. Master Record Proration
2. Utility Sort/Merge
3. Budget Update/Create
4. Summary Listing
5. Line Item Budget Listing
6. Line Item School Budget Comparison Listing

Master Control Number Card (Ascending Sequence - Program Account Code)

Columns		Description
1-21		Program Account Code
	1-2	Fiscal Year
	3-4	Fund
	5-7	Organizational Number
	8-9	Program
	10-11	Program Area
	12-14	Course No.
	15-18	Expenditure No.
	19-21	Sequence (Zeros)
		Normally 5-14 Encompass the control number
22-80		Blank Filler

Displayed error messages may occur to flag pertinent conditions. Table size for master numbers is initially set at 900 entries.

MIS FINANCE

BSELECT

MIS FINANCE

Master Record Prorate (PRORATE)

The purpose of this program is to process the records selected in Master Record Select (BSELECT) and prorate them over that number of split numbers read in this program.

This program processes a deck of master number prorations and builds a table in core. Each selected record is then found in the internal table. The ten digit breakout number is then placed in the program account code of the selected record and the matching percent is placed within that position that matches the format description.

As input the program uses the following files:

1. Selected file of Budget update records from BSELECT
2. Master Number breakout deck

This program is third in processing sequence. The steps preceding are:

1. Utility Sort
2. Master Record Select

The steps that follow this are:

1. Utility Sort Merge
2. Budget Update/Create
3. Summary Listing
4. Line Item Budget Listing
5. Line Item School Budget Comparison Listing

Master Control Number Breakout Card

Columns		Description
1-21		Program Account Code
	1-2	Fiscal Year
	3-4	Fund
	5-7	Organizational No.
	8-9	Program
	10-11	Program Area
	12-14	Course
	15-18	Expenditure Code
	19-21	Sequence No. (Zeros)

NOTE: Columns 5-14 above include the master number

22		Sequence number (1)
23-24		Number of cells in card
25-72		Breakout cells.
	25-36	Cell 1
	37-48	Cell 2
	49-60	Cell 3
	61-72	Cell 4

Cell Description

First three columns	"	Organizational No.
Next two	"	Program
" "	"	Program Area
" three	"	Course No.
" two	"	Percent
73-79		Blank
80		Card Identifier (0)

As many cards as necessary may be punched as long as they are together and as long as number of cells never exceeds 30.

BPRORATE

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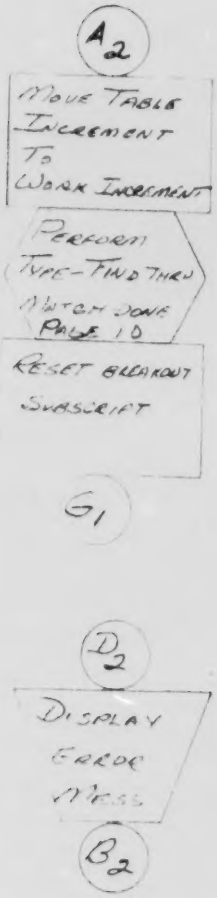
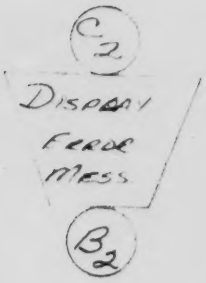

A2
MOVE TABLE INCREMENT TO WORK INCREMENT
PERFORM TYPE-FIND THRU MATCH DONE PARA 10
RESET BREAKOUT SUBSCRIPT
G1

B2
CLOSE ALL FILES
STOP


C2
DISPLAY ERROR MESS
B2

D2
DISPLAY ERROR MESS
B2

TYPE FIND
IS RECORD NOT TYPE 1
A 10
IS CELL = ZEROS
E 10
IS RECORD NOT TYPE 2
B 10
IS CELL = ZEROS
E 10
IS RECORD NOT TYPE 4
C 10
IS CELL = ZEROS
E 10
IS RECORD NOT TYPE 5
D 10
IS CELL = ZEROS
E 10
G 10
MOVE CELL TO W/S
SET UP CORRECT PCT FIELD
WRITE OUT BREAKOUT RECORD
BUMP CELL CTR
CLEAR OUTPUT
A 10
MOVE CELL TO W/S
SET UP CORRECT PCT FIELD
WRITE BREAKOUT RECORD
BUMP CELL CTR
CLEAR OUTPUT
B 10
MOVE CELL TO W/S
SET UP CORRECT PCT FIELD
WRITE BREAKOUT RECORD
BUMP CELL CTR
CLEAR OUTPUT
C 10
MOVE CELL TO W/S
SET UP CORRECT PCT FIELD
WRITE BREAKOUT RECORD
BUMP CELL CTR
CLEAR OUTPUT
D 10
E 10
RESET CELL CTR
CLEAR OUTPUT
F 10
MATCH DONE
EXIT
G 10
DISPLAY ERROR MESSAGE
F 10
STORE-CRSPCT
IS CELL = ZEROS
MOVE 12 TO CELLCTR
MOVE CRS AND PCT TO TABLE
EXIT

MIS FINANCE
BUDGET SUMMARY LISTER (FIBUDLST)

The purpose of the program is to take the file from the UPDATE program, which contains each budget item and summarize them by categories specified in the parameter cards.

The program first reads in the school and department descriptions from card input and stores these. Then a parameter card with several indicators needed to compile the correct report is read in. The item file is then read and the item cost is added to the proper total in a hierarchy of categories. When the variables of a particular category change its totals and those totals of the categories below it in the hierarchy are printed in the format indicated by the parameter card. These categories are: Expenditure class, course, department, program, organization (school), district, and Fund. The summary can be based on any level and skip any level. Any number of parameter cards and their corresponding summaries can be included in the same run as long as the order of the level and the input file remains the same within that run.

Input files are:

1. Card file - school descriptions, department information, parameter cards.
2. Master Budget File - itemized budget records.

Out file is printed summary displays.

This program's use is mainly to summarize budget data in a form easy to digest for the various types of administrators working on the budget.

This program is sixth in the processing sequence preceeded by:

1. Utility Sort
2. Master record select.
3. Master record proration.
4. Utility Sort/Merge
5. Budget Update

* occasionally a sort is needed before running FIBUDLST depending on the type of summary requested; but usually Budget Update puts out the Master file in the order needed for most summaries.

Those programs following FIBUDLST are:

1. Line Item Budget Listing
2. Line Item School Comparison Listing.

Parameter Card Layout for FIBUDLST

Four different parameter card types are possible for each FIBUDLST run. The first, type-0, is used to bring all the department names under each program in to storage. Each card contains a department and program number and the corresponding department name. In addition each card must have a zero in column 80.

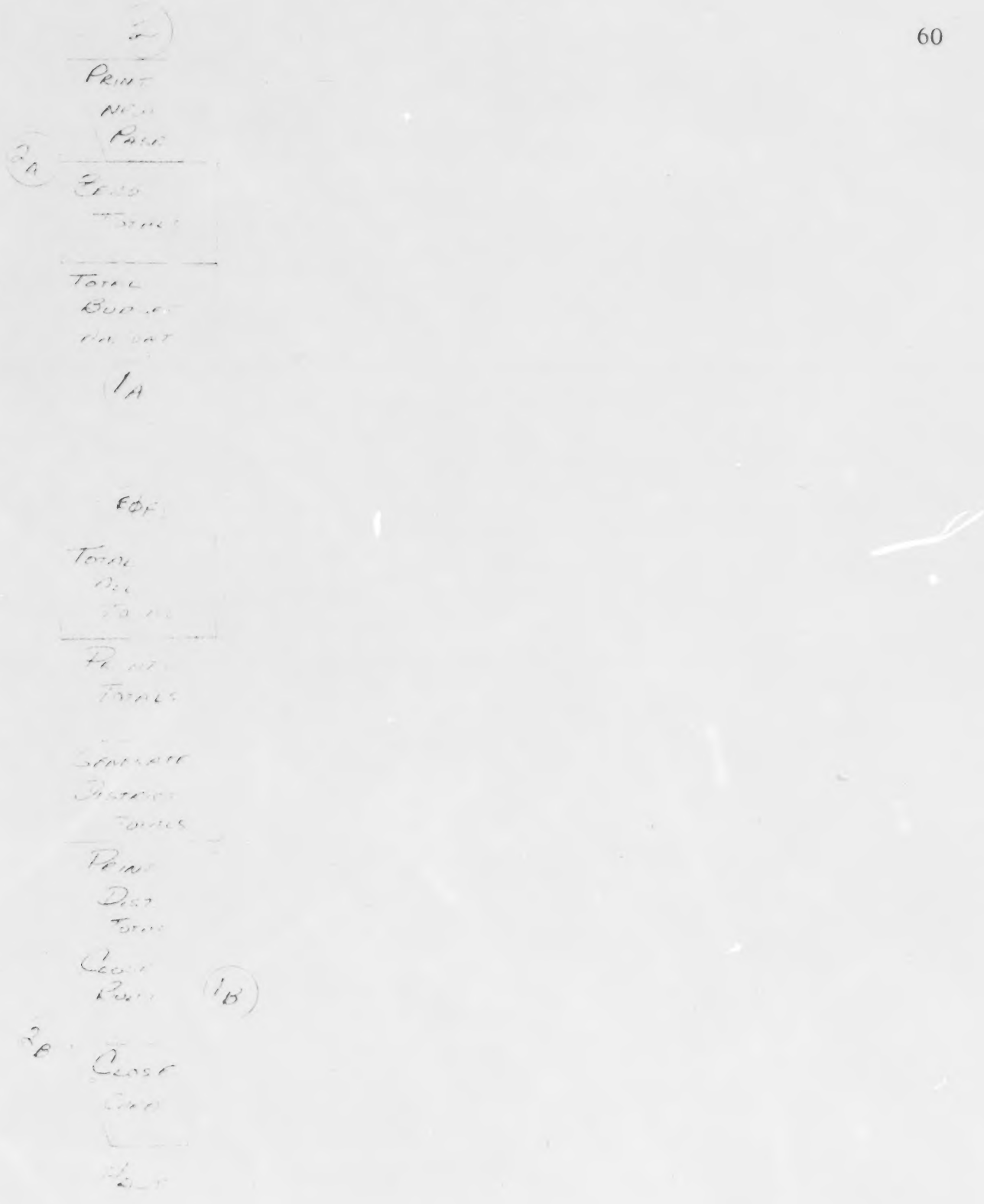
Type-1 contains school information to be read into storage. Each card must have school and district numbers, school name, district name, and a one in column one.

Card type two is the most complicated card. There is a type-2 for every different listing within a run. The program is set up to run on all or a select few of the numbers from each category: school, program, department, course, and expenditure class. Card-2 contains room for 4 different schools, 2 programs, 4 departments, and 4 course numbers. In addition each card 2 contains a rank for each category. A rank of one for a category means that it is the major type of report. A two means the report will have that category as the main listing line. Ranks three and four are for categories that will cause listing breaks but are not the major list category. For example, if the department rank is one and the course rank is two and school and program are three and four respectively then each course will be listed within each department with that department name in the page heading. When a new department is reached the total for that department is printed and a new page started. If either school or program numbers are new then all lower level totals are printed and its totals are printed and a new page is started. If 'ALL' is placed in the first of the possible school numbers then all schools are included and district and level totals are made at appropriate times. A run number must be placed on every card and if Fund totals are desired for every fund break then a one must be placed after the run number. If the expenditure type of listing is required then a one must be placed appropriately.

If an expenditure list is desired then the card-2 is preceeded by a card-3. This contains up to nine, four-digit, expenditure classes that are to be used for each expenditure list.

All the department and school parameter cards must be in numeric order within there card types, department cards first then school cards. After this come the two cards one for each listing desired. They can be in any order provided that any two card requesting an expenditure list is proceeded by a three card.

START
OPEN ALL I/O FILES
READ DEPT. CARDS
IS IT NOT A DEPT CARD
YES
BUILD DEPT ENTRY
READ ORG. CARDS
IS IT NOT A SCHOOL CARD
YES
BUILD SCHOOL ENTRY
1B
READ OPTION CARD
2B
IS IT NOT AN OPTION CARD
ERROR
PROCESS OPTIONS INDICATORS
PRINT TITLE PAGE
SET NEW REPORT INDICATORS
OPEN I/O FILES ON BASIS OF OPTIONS
ZERO TOTALS
1A
READ BUDGET FILE
EOF
IS RECORD NEGATIVE OR SUMMARY
NO
PRINT LINE
HIGH LEVEL BREAK
NO
A
TOTAL ALL NON ZERO LOWER LEVEL
PRINT ALL TOTALS
41 TOTAL PRINTED ?
NO
PAGE FULL ?
YES
2
YES
2
2A



MIS FINANCE
School Line Item Budget (SFOLST)

The purpose of this program is to produce a traditional line item budget by school or building.

This listing provides a transitional type report to facilitate orientation from traditional to program-budgeting.

A district budget is formatted on the end of the listing along with a list of building budget totals.

DISPLAYS

NUMBER	DESCRIPTION
01	ERROR. MISSING DISTRICT NAME ON HEADER CARD.
02	ERROR. MISSING ID INFO ON HEADER CARD.
03	ERROR. MISSING RUN ID ON HEADER CARD.
04	ERROR. HEADER CARD FOUND FOLLOWING FIRST CARD.
05	MESSAGE. PROGRAM WILL BE TERMINATED DUE TO INVALID HEADER CARD.
06	ERROR. FIRST CARD IN DECK IS NOT A HEADER CARD.
07	ERROR. SCHOOL CARD OUT OF ORDER, FOLLOWS CARD WHICH IS NOT A HDR OR SCH CARD.
08	ERROR. MISSING SCHOOL NUMBER ON SCHOOL CARD.
09	ERROR. MISSING SCHOOL NAME ON SCHOOL CARD.
10	ERROR. NUMBER OF SCHOOL CARDS EXCEEDS MAXIMUM.
11	ERROR. INVALID RECORD CODE FOUND ON CARD. RUN WILL BE TERMINATED.
12	ERROR. FUNCTION/OBJECT CODE ON FUNCTION/OBJECT CARD IS NOT NUMERIC.
13	ERROR. MISSING NAME ON FUNCTION/OBJECT ITEM CARD.
14	ERROR. X-LEVEL FUNCTION/OBJECT CARD OUT OF ORDER. X-LEVEL NOW ASSUMED.
15	ERROR. Y-LEVEL FUNCTION/OBJECT CARD OUT OF ORDER. Y-LEVEL NOW ASSUMED.
16	ERROR. Z-LEVEL FUNCTION/OBJECT CARD OUT OF ORDER. Z-LEVEL NOW ASSUMED.
17	ERROR. T-LEVEL FUNCTION/OBJECT CARD OUT OF ORDER. CHECK ALL CARDS CAREFULLY.
18	ERROR. FIRST FUNCTION/OBJECT CARD IS NOT AN X CARD.
19	ERROR. SEQUENCE OF SCHOOL NUMBER ON SCHOOL CARD IS LOW.

DESCRIPTION

57	WARNING. LOW CODE VALUES ON Z AND T CARDS ARE UNEQUAL.
58	WARNING. HIGH CODE VALUES ON A AND T CARDS ARE UNEQUAL.
59	ERROR. T CARD FOUND WITH NO X, Y, OR Z LEVEL CORRELATE.
60	WARNING. CHECK ABOVE MESSAGES CONCERNING POSSIBLE FUNC/OBJ CARD ERRORS.
61	ERROR. INVALID RECORD CODE IN FUNCTION/OBJECT MATRIX. SKIPPED.
62	MESSAGE. END OF SCHOOL FILE E.. OUNTERED. BEGIN DISTRICT WRAP-UP.

MISCELLANEOUS

'BEGIN RUN', current date.

School sequence number, school number, school name.

'NUMBER OF SCHOOL CARDS =', number of school cards processed.

'NUMBER OF FUNCTION/OBJECT CARDS =', number of function/object cards processed.

'REJECT BUDGET NUMBER FOR', school name or district name, '=', amount of budget dropped due to no matching F.O. card. See Display 29.

'REJECT BUDGET FOR OTHER =', amount of budget dropped due to unmatching school numbers. See Display 25.

'REJECT BUDGET DELETES =', amount of budget dropped due to a record delete code of 1.

PRINT LINES

NOTES

1. Print lines A and B are printed at the top of each page of the report. Page numbering changes with each school and with the district summary.

2. Print lines C, D, and E contain X, Y, or Z paragraph level information.

3. Print lines F, G, and H indicate the continuation of X, Y, or Z paragraph levels and reflect print lines C, D, and E respectively.

4. Print line J contains line-item information.

5. Print line K contains X, Y, or Z level total information.

6. Print line L contains school or district total information.

7. Print line N contains school totals as printed in the district summary.

ID		CONTENTS
A	1.	Page header (school or district) name.
	2.	Header (school or district) number.
	3.	Current date.
	4.	Page literal.
	5.	Page number.
B	1.	Progressive F.O. budget literal.
	2.	Identification info. (such as school year).
	3.	Run literal.
	4.	Run number.
C	1.	X level name.
	2.	Low X value.
	3.	High X value.
D	1.	Y level name.
	2.	Low Y value.
	3.	High Y value.
E	1.	Z level name.
	2.	Low Z value.
	3.	High Z value.

NUMBER	DESCRIPTION	63
20	MESSAGE. ERRORS FOUND IN CARD FILE. RUN TERMINATED.	
21	ERROR. MISSING SCHOOL NUMBER ON SCHOOL-FILE RECORD. RECORD SKIPPED.	
22	ERROR. SCHOOL NUMBER ON FIRST RECORD IS > SCHOOL NUMBER OF FIRST SCH CARD.	
23	ERROR. SCHOOL NUMBER ON SCHOOL CARD IS BLANK OR = TO PRECEDING CARD.	
24	WARNING. RECORDS FOR FOLLOWING SCHOOL NUMBER SKIPPED. MISSING SCHOOL CARD.	
25	ERROR. SCHOOL NUMBER ON FILE LESS THAN SCHOOL NUMBER ON CARD. SKIPPED.	
26	ERROR. X, Y, Z, AND T FUNCTION/OBJECT CARDS IN UNEQUAL NUMBERS.	
27	ERROR. FUNCTION/OBJECT CODE ON SCHOOL FILE RECORD IS NOT NUMERIC. SKIP REC.	
28	ERROR. BUDGET VALUE ON SCHOOL FILE RECORD IS NOT NUMERIC. RECORD SKIPPED.	
29	ERROR. FUNCTION/OBJECT CODE ON FILE NOT ON CARD. SKIPPED.	
30	ERROR. NUMBER OF FUNCTION/OBJECT CARDS EXCEEDS MAX. REMAINDER NOT PROCESSED.	
31	ERROR. INVALID RECORD CODE IN FUNCTION/OBJECT MATRIX. SKIPPED.	
32	PROBABLE ERROR. INVALID TOTAL CARD FOUND IN FUNCTION/ OBJECT MATRIX. SKIPPED.	
33	MESSAGE. LAST SCHOOL CARD PROCESSED. BEGIN DISTRICT WRAP-UP.	
34	MESSAGE. PROGRAM WILL BE TERMINATED DUE TO INVALID FUNC/OBJ CARD ABOVE.	
35	MESSAGE. PROGRAM WILL BE TERMINATED DUE TO INVALID FUNC/OBJ CARD ABOVE.	
36	ERROR. LOW CODE ON X, Y, OR Z CARD IS NOT NUMERIC.	
37	ERROR. HIGH CODE ON X, Y, OR Z CARD IS NOT NUMERIC.	

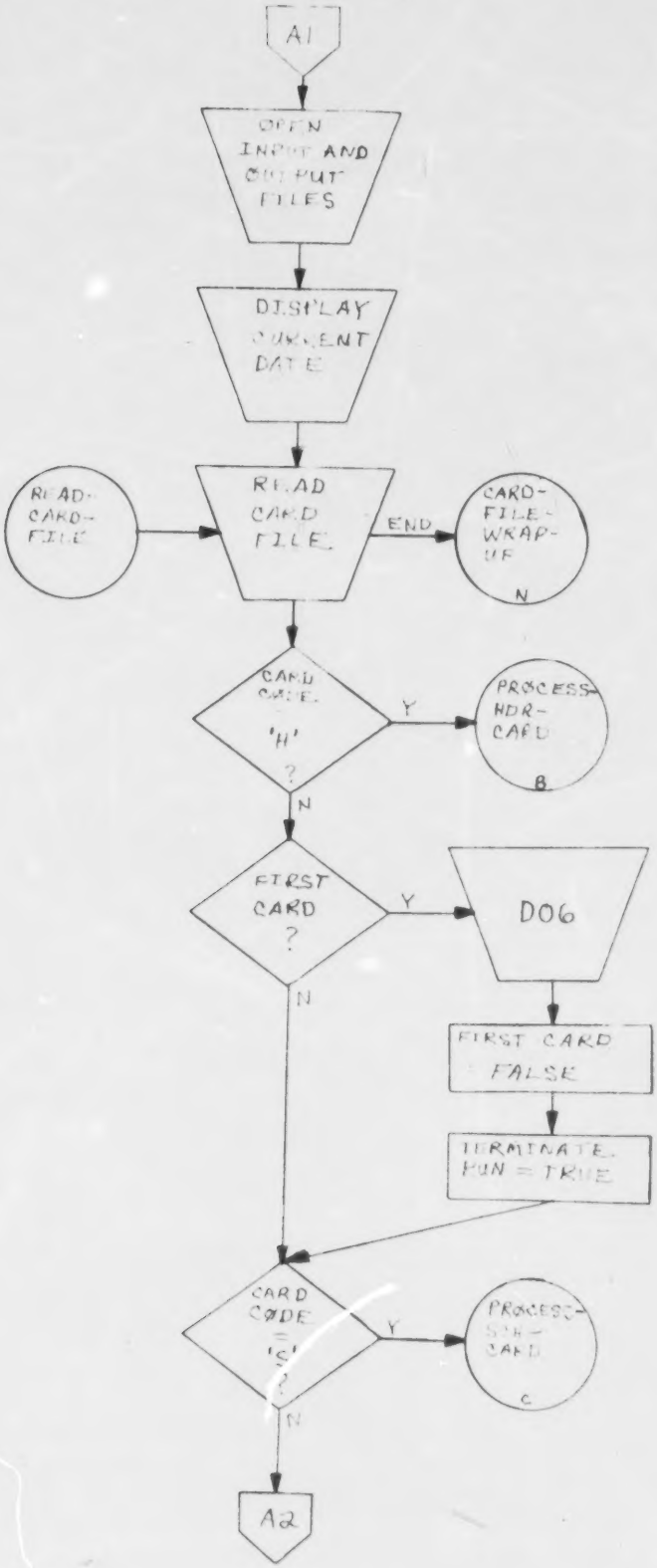
NUMBER	DESCRIPTION
38	ERROR. X, Y, OR Z CARD HEADER NAME IS MISSING.
39	ERROR. FUNCTION/OBJECT NUMBER ON ITEM CARD IS NOT NUMERIC.
40	ERROR. ITEM FOUND WITH NO X LEVEL IN EFFECT.
41	ERROR. FUNCTION/OBJECT NUMBER LESS THAN X-LEVEL LOW VALUE.
42	ERROR. FUNCTION/OBJECT NUMBER GREATER THAN X-LEVEL HIGH VALUE.
43	ERROR. FUNCTION/OBJECT NUMBER LESS THAN Y-LEVEL LOW VALUE.
44	ERROR. FUNCTION/OBJECT NUMBER GREATER THAN Y-LEVEL HIGH VALUE.
45	ERROR. FUNCTION/OBJECT NUMBER LESS THAN Z-LEVEL LOW VALUE.
46	ERROR. FUNCTION/OBJECT NUMBER GREATER THAN Z-LEVEL HIGH VALUE.
47	ERROR. ITEM FOUND WITH NO Y LEVEL IN EFFECT.
48	ERROR. ITEM FOUND WITH NO Z LEVEL IN EFFECT.
49	ERROR. ITEM HAS SAME FUNCTION/OBJECT NUMBER AS PRECEDING ITEM.
50	ERROR. LOW CODE ON T CARD IS NOT NUMERIC.
51	ERROR. HIGH CODE ON T CARD IS NO T NUMERIC.
52	ERROR. T CARD HEADER NAME IS MIS SING.
53	WARNING. LOW CODE VALUES ON Z AND T CARDS ARE UNEQUAL.
54	WARNING. HIGH CODE VALUES ON Z AND T CARDS ARE UNEQUAL.
55	WARNING. LOW CODE VALUES ON Y AND T CARDS ARE UNEQUAL.
56	WARNING. HIGH CODE VALUES ON Y AND T CARDS ARE UNEQUAL.

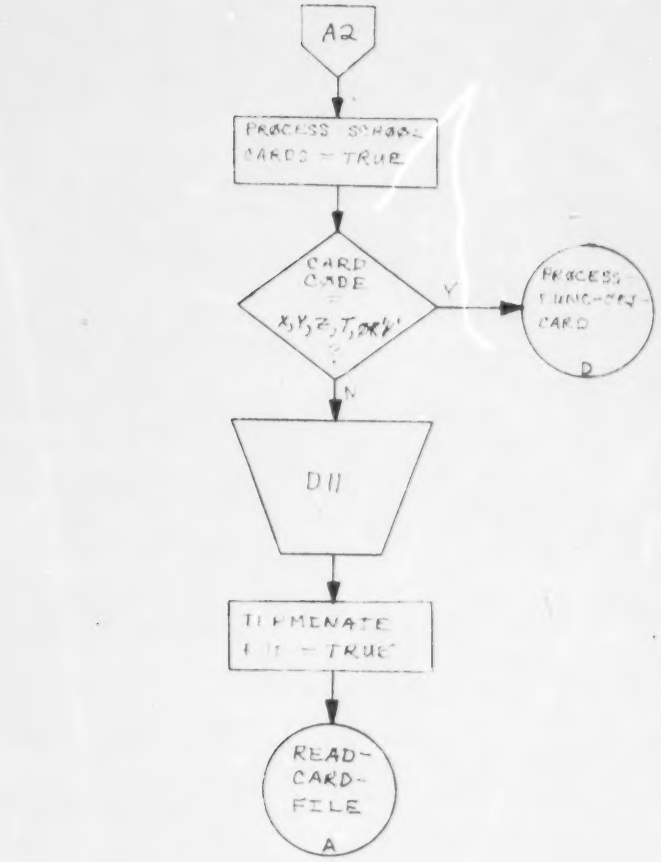
cont.

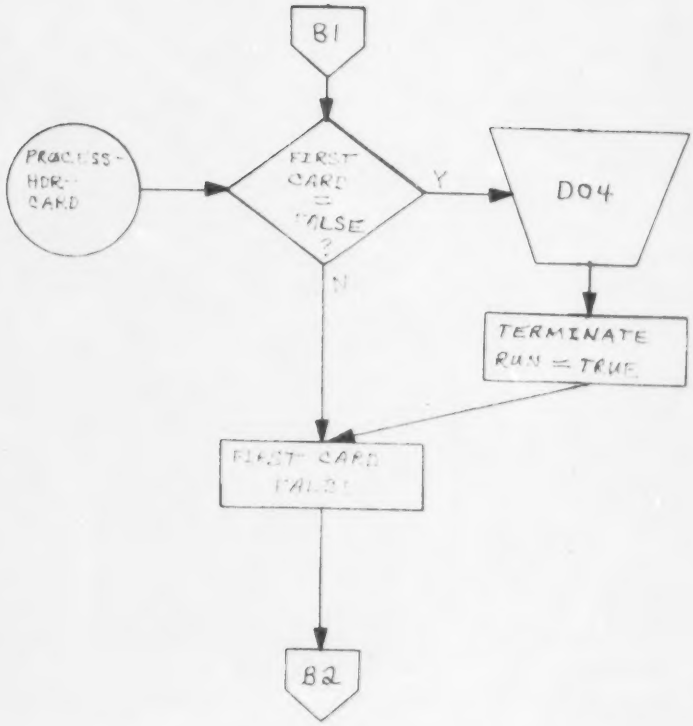
ID		CONTENTS
F	1.	X level name.
	2.	Low X value.
	3.	High X value.
	4.	Continued literal.
G	1.	Y level name.
	2.	Low Y value.
	3.	High Y value.
	4.	Continued literal.
H	1.	Z level name.
	2.	Low Z value.
	3.	High Z value.
	4.	Continued literal.
I	1.	Code literal.
	2.	Description literal.
	3.	Budgeted literal.
J	1.	Function object line-item number.
	2.	Line-item description name.
	3.	Line-item budget amount.
K	1.	X, Y, or Z total literal.
	2.	S, Y, or Z level name.
	3.	Low X, Y, or Z value.
	4.	High X, Y, or Z value.
	5.	Total X, Y, or Z budget amount.
L	1.	Final total for literal.
	2.	Header (school or district) name.
	3.	Total budget amount.
M	1.	Code literal.
	2.	School literal.
	3.	Total literal.
N	1.	School number.
	2.	School name.
	3.	Total budget amount.
O	1.	Separation dashes literal.

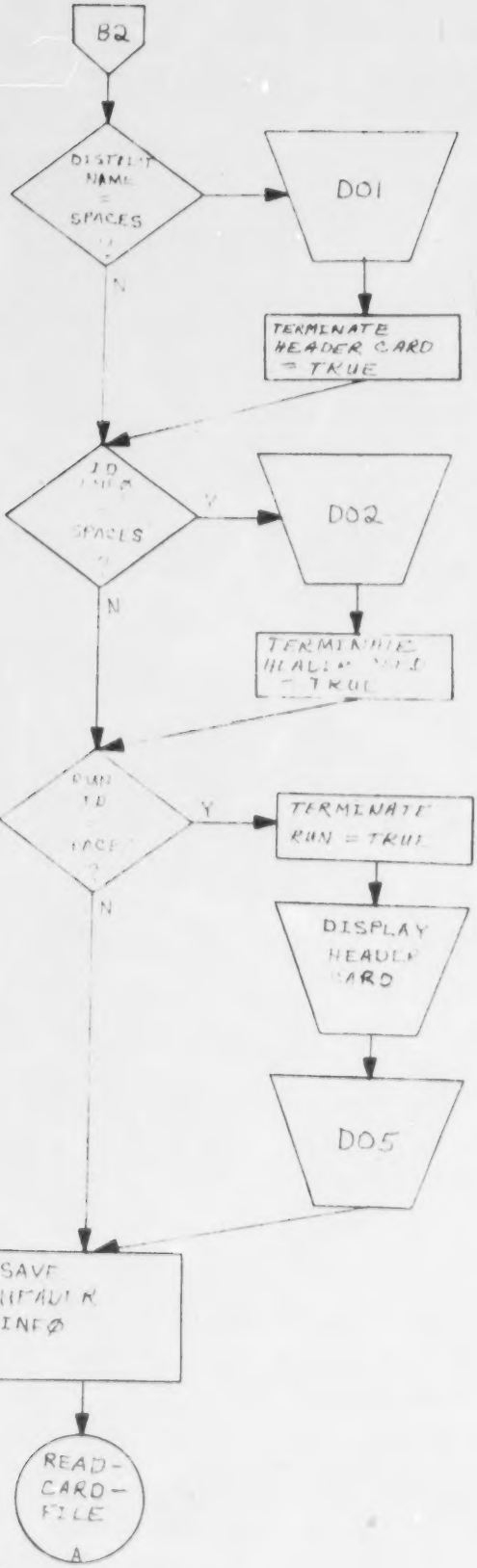
ALPHABETICAL PARAGRAPH NAME LIST

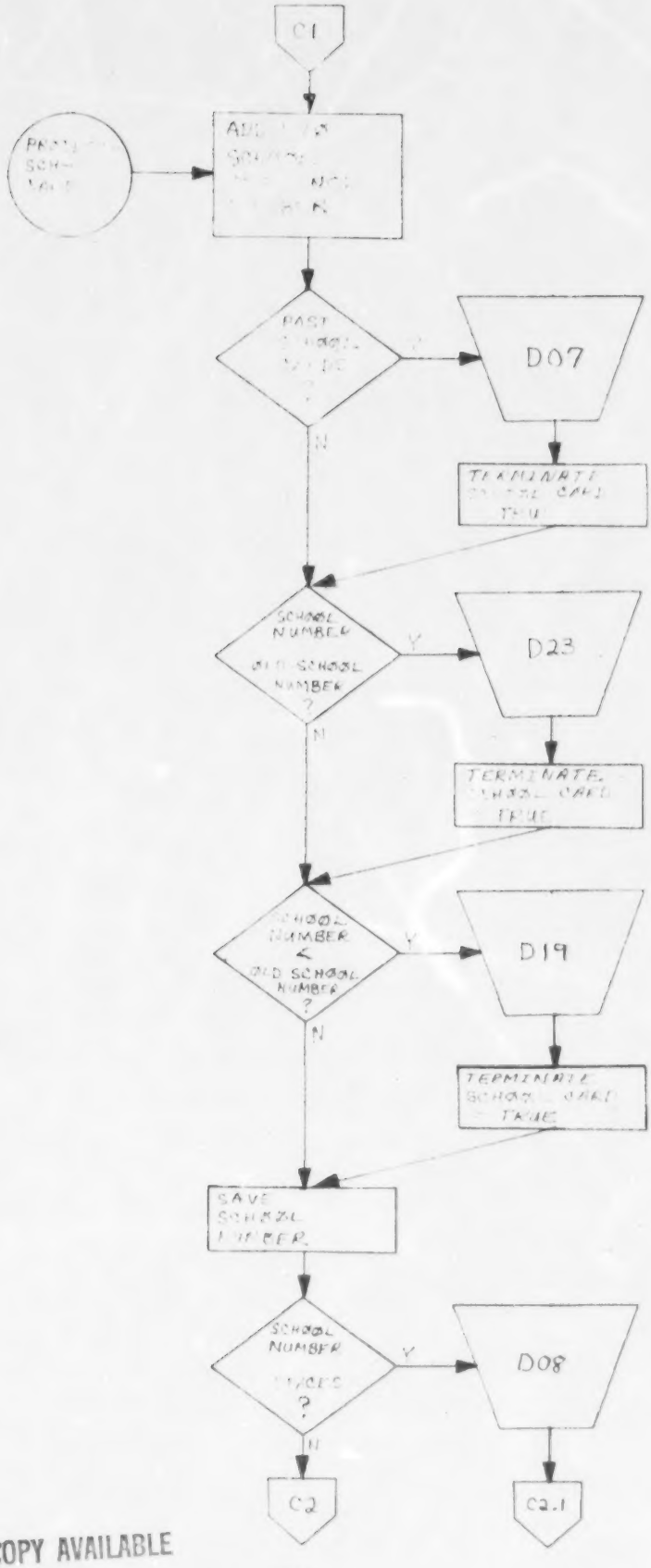
FUNCTIONAL PARAGRAPH NAME	DETAILED FLOWCHART CODE
BEGIN-SCH-DISPLAY	N
CARD-FILE-WRAP-UP	N
CHECK-RETURN	AB
CHECK-SCH-REC	P
CHECK-TERM-FUNC-OBJ-CARD	M
CHECK-X-TOTAL	AA
CHECK-Y-ITEM-LEVEL	D
CHECK-Y-TOTAL	Z
CHECK-Z-ITEM-LEVEL	D
DISPLAY-SCHOOLS	O
DISPLAY-SCHOOLS-EXIT	O
DIST-WRAP-UP	AD
EDIT-XYZ-CARD	H
EDIT-XYZ-CARD-EXIT	H
NEXT-DIST-FUNC-OBJ-REC	AD
NEXT-FUNC-OBJ-REC	T
PRINT-ITEM-LINE	S
PRINT-LAST-PAGE	AE
PROCESS-FIRST-SCH-REC	Q
PROCESS-FUNC-OBJ-CARD	D
PROCESS-HDR-CARD	B
PROCESS-SCH-CARD	C
PROCESS-T-CARD	I
PROCESS-T-REC	Y
PROCESS-X-CARD	E
PROCESS-X-REC	V
PROCESS-X-REC-EXIT	V
PROCESS-X-TOTAL-CARD	L
PROCESS-Y-CARD	F
PROCESS-Y-REC	W
PROCESS-Y-REC-EXIT	W
PROCESS-Y-TOTAL-CARD	K
PROCESS-Z-CARD	G
PROCESS-X-REC	X
PROCESS-Z-REC-EXIT	X
PROCESS-Z-TOTAL-CARD	J
READ-CARD-FILE	A
READ-SCH-FILE	P
SCHOOL-LIST	AF
SCHOOL-LIST-EXIT	AF
SCHOOL-WRAP-UP	U
SKIP-LOW-RECS	R
TERMINATE-RUN	AG
UPDATE-FUNC-OBJ-TABLE	S
UPDATE-PAGE	AC
UPDATE-PAGE-EXIT	AC


A1
OPEN INPUT AND OUTPUT FILES
DISPLAY CURRENT DATE
READ-CARD-FILE
READ CARD FILE
END
CARD-FILE-WRAP-UP
N
CARD CODE = 'H' ?
Y
PROCESS-HDR-CARD
B
N
FIRST CARD ?
Y
D06
N
FIRST CARD = FALSE
TERMINATE-RUN = TRUE
CARD CODE = 'S' ?
Y
PROCESS-STR-CARD
C
N
A2

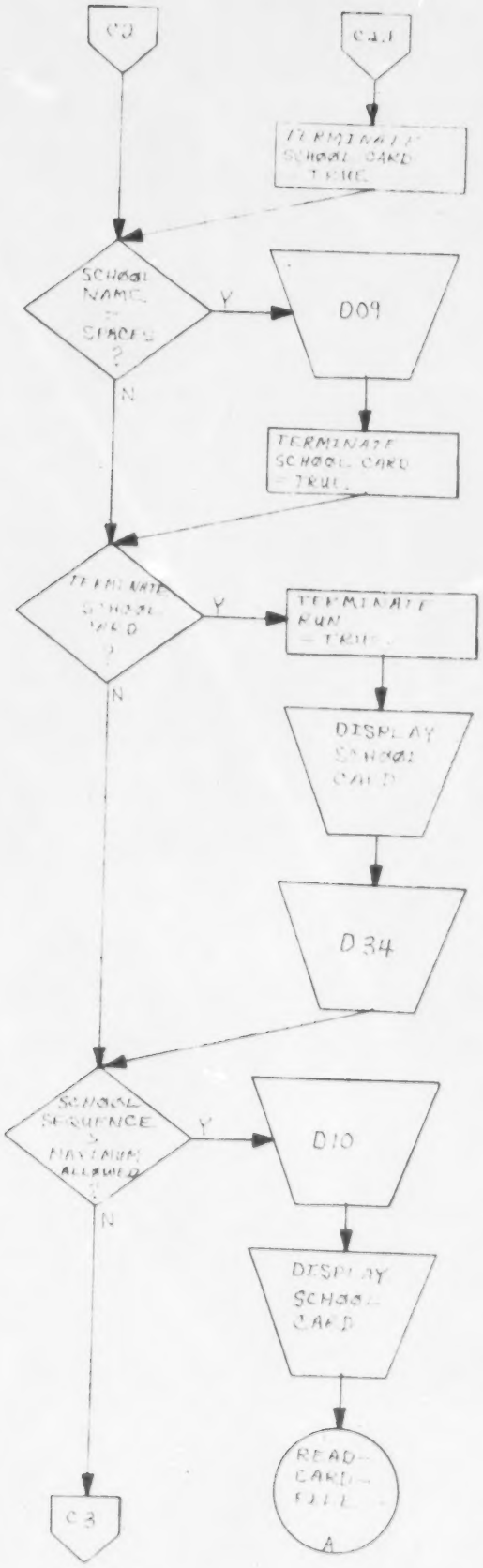

A2
PROCESS SYMBOL CARDS = TRUE
CARD CODE = X,Y,Z,T,BRK ?
Y
PROCESS-FUNCTION-CARD
D
N
D11
TERMINATE RUN = TRUE
READ-CARD-FILE
A

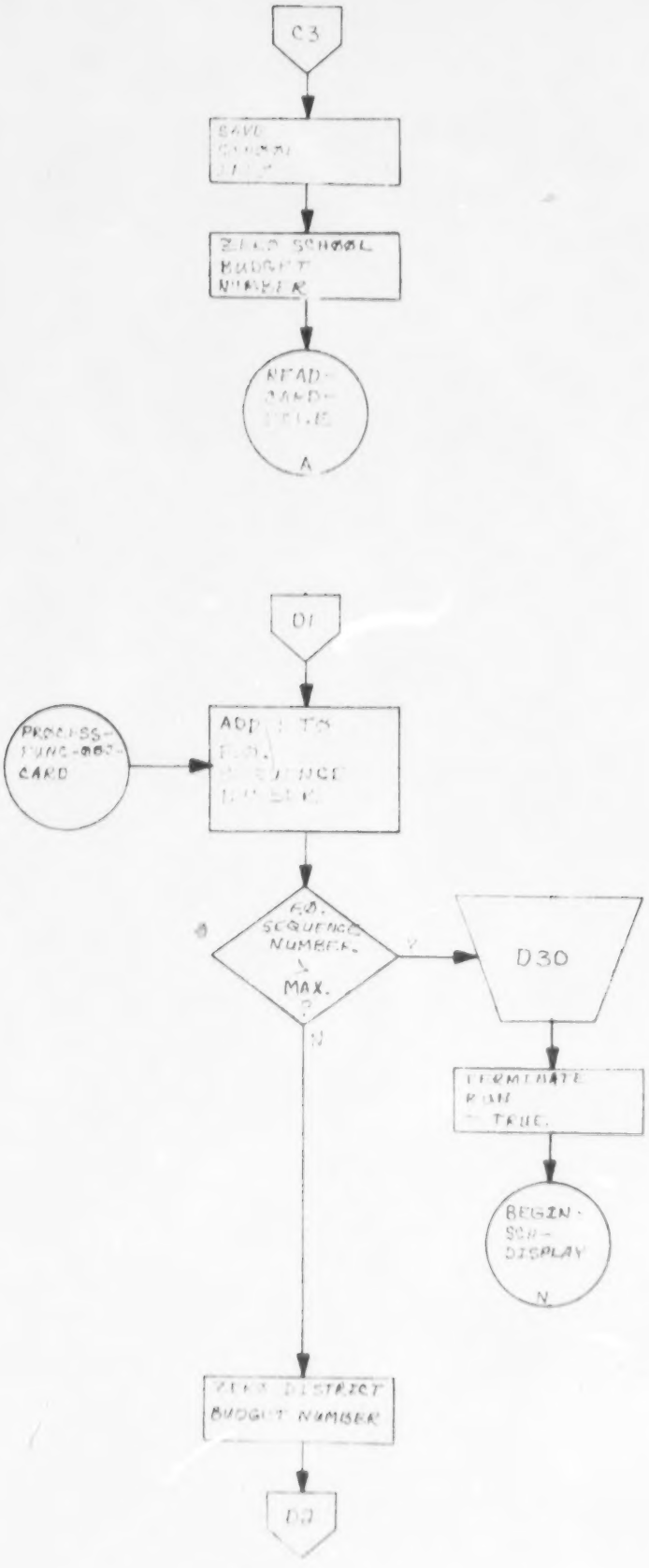

B1
PROCESS-HDR-CARD
FIRST CARD = FALSE ?
Y
D04
N
TERMINATE RUN = TRUE
FIRST CARD = FALSE
B2

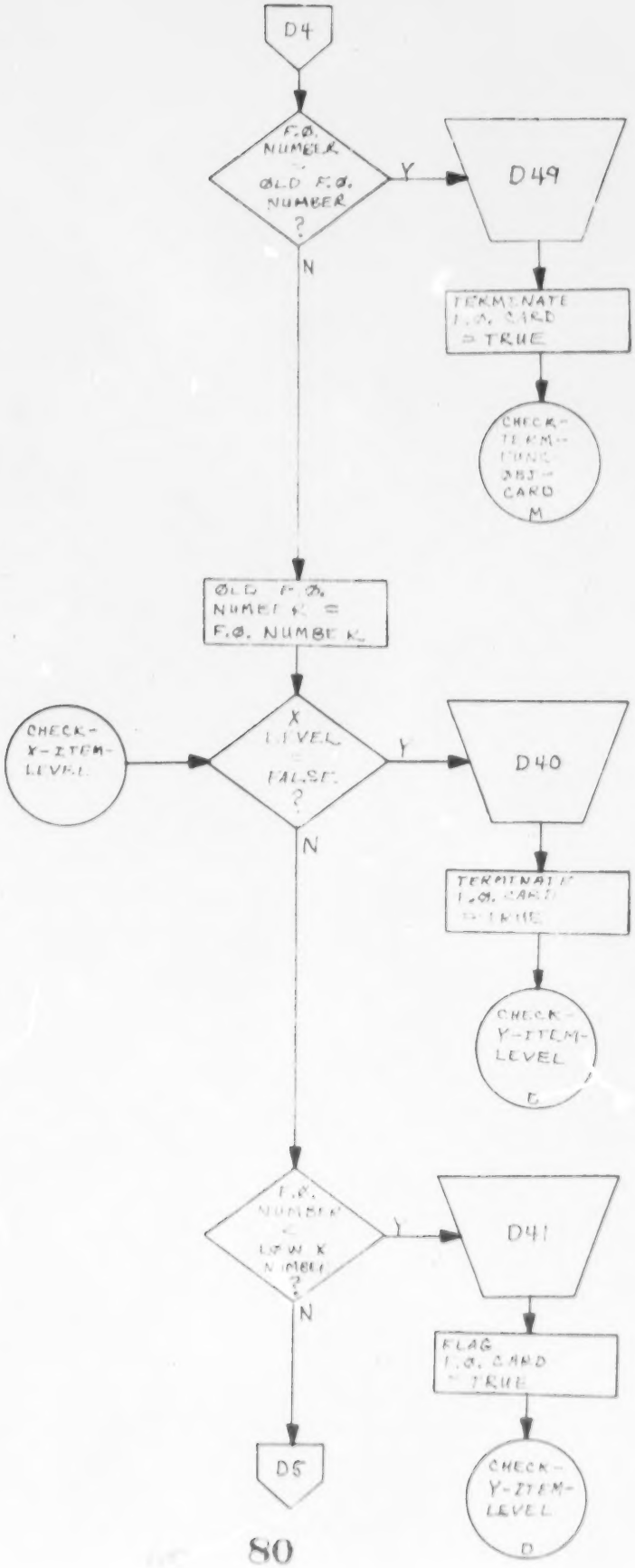

B2
DISTRICT NAME = SPACES
Y
DO1
N
TERMINATE HEADER CARD = TRUE
SPACES
Y
DO2
N
TERMINATE
= TRUE
Y
TERMINATE RUN = TRUE
DISPLAY HEADER CARD
DO5
SAVE
INFØ
READ-CARD-FILE
A

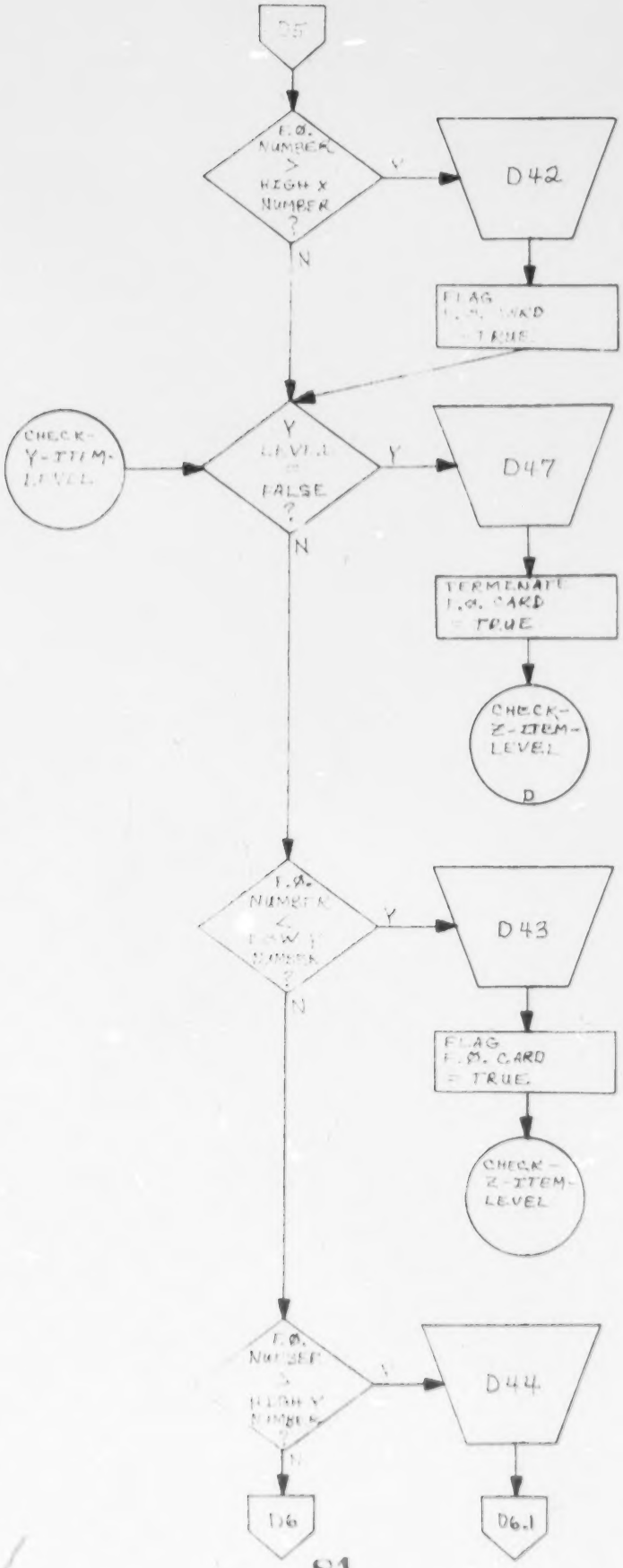


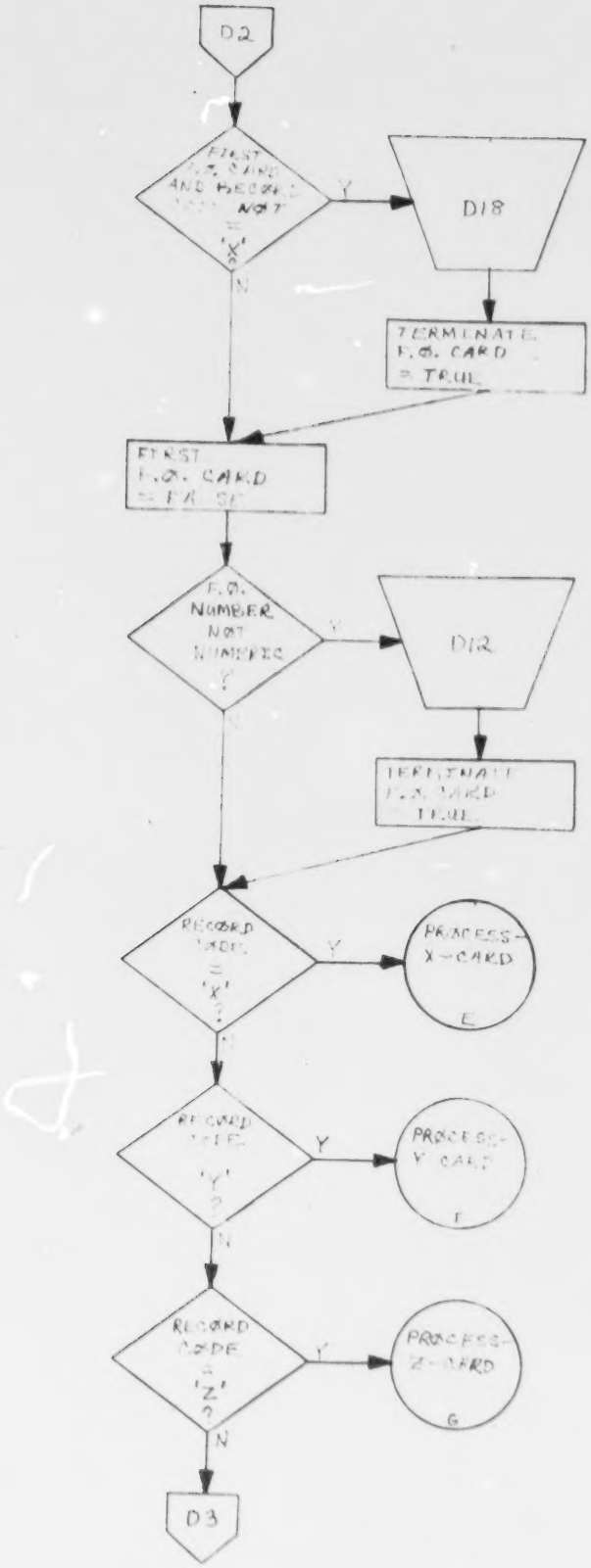
BEST COPY AVAILABLE

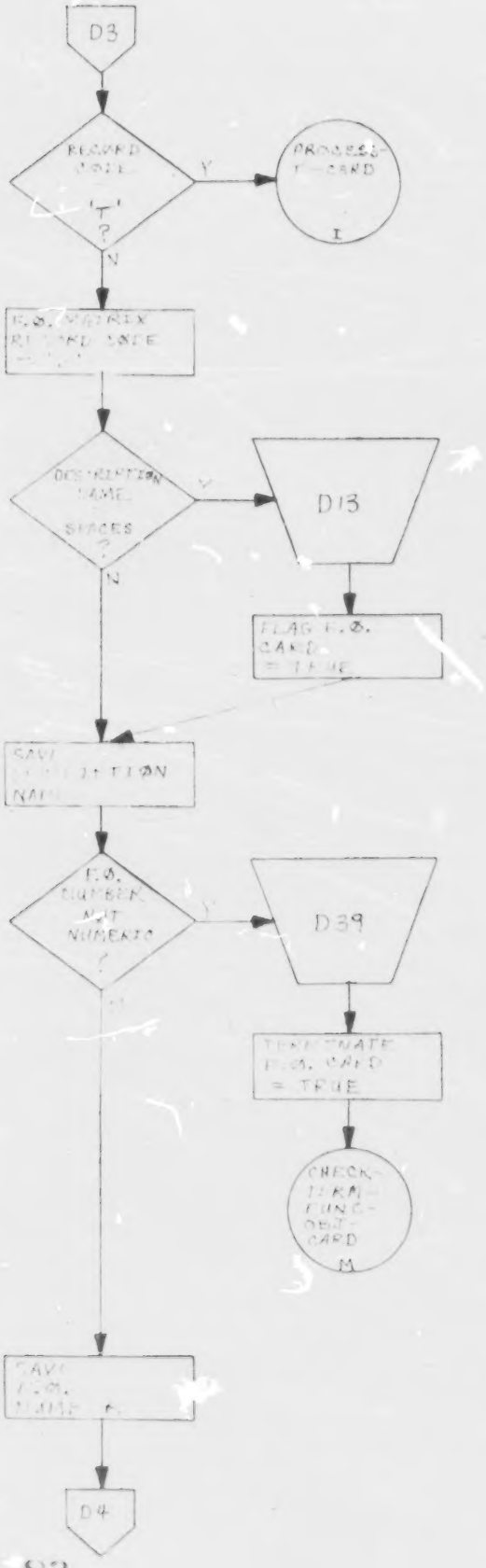

C2
C4.1
TERMINATE SCHOOL CARD = TRUE
SCHOOL NAME = SPACES ?
Y
D09
N
TERMINATE SCHOOL CARD = TRUE
TERMINATE SCHOOL CARD ?
Y
TERMINATE RUN = TRUE
N
DISPLAY SCHOOL CARD
D34
SCHOOL SEQUENCE > MAXIMUM ALLOWED ?
Y
D10
N
DISPLAY SCHOOL CARD
READ CARD FILL
A
C3

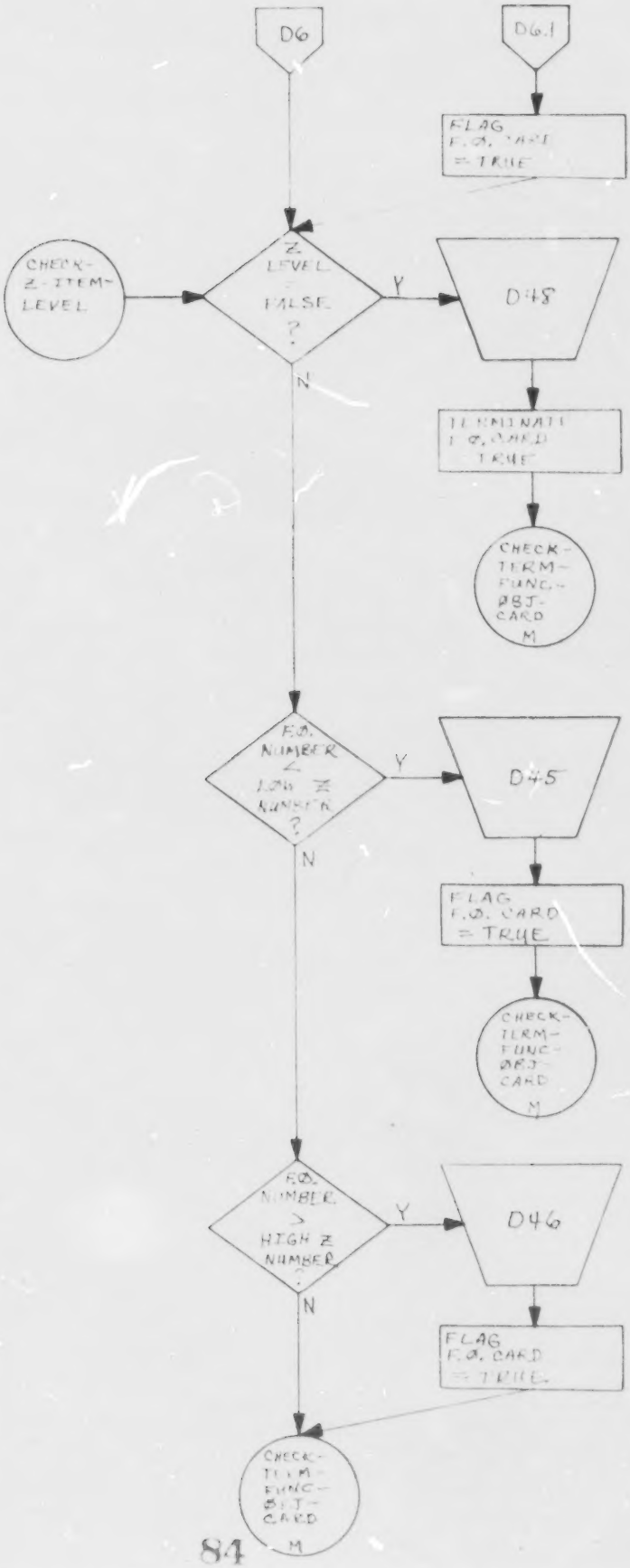

C3
SAVE
READ SCHOOL
BUDGET
NUMBER
READ-
CARD-
FILE
A
D1
PROCESS-
FUNC-DES-
CARD
ADD
FOR
SEQUENCE
NUMBER
SEQ.
SEQUENCE
NUMBER
>
MAX.
?
Y
N
D30
TERMINATE
RUN
= TRUE.
BEGIN-
SCR-
DISPLAY
N
READ DISTRICT
BUDGET NUMBER
D2

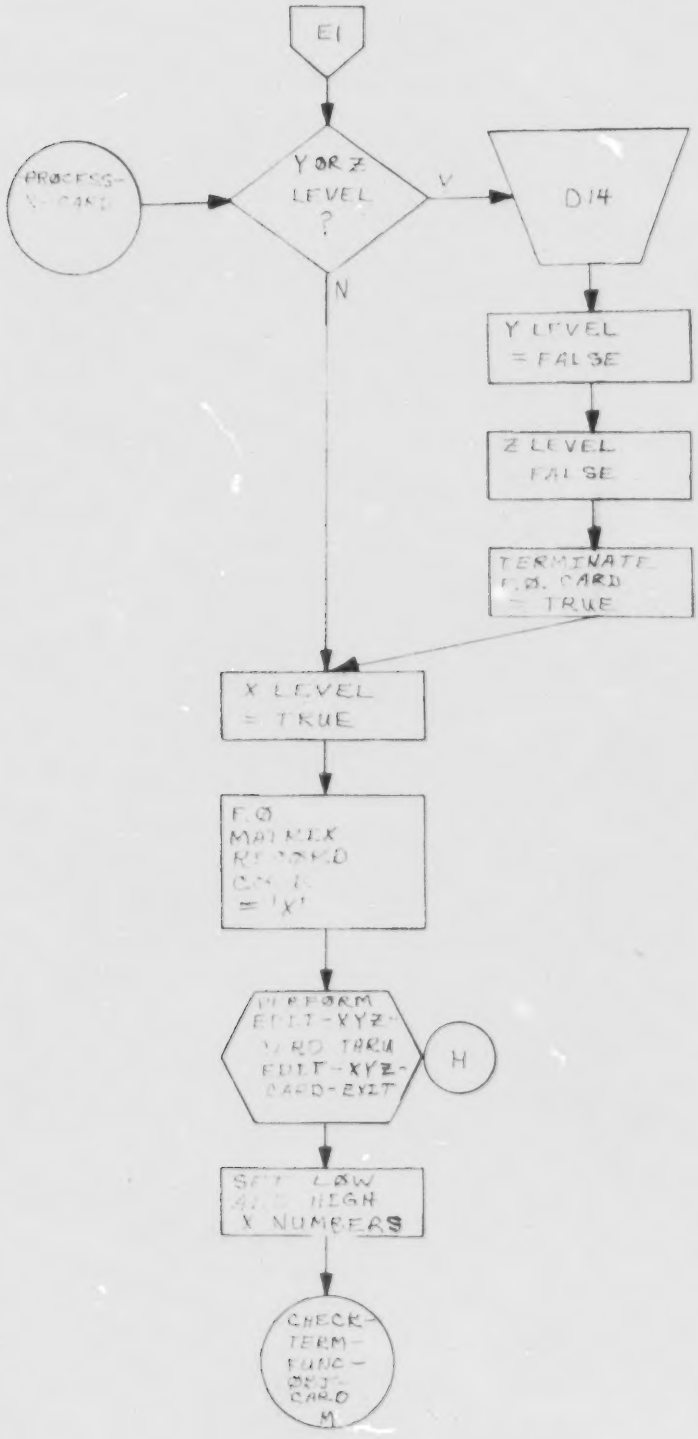

D4
F.Ø. NUMBER = OLD F.Ø. NUMBER ?
Y
D49
N
TERMINATE I.Ø. CARD = TRUE
CHECK-TERM-FUNC-OBJ-CARD
M
OLD F.Ø. NUMBER K = F.Ø. NUMBER K
CHECK-X-ITEM-LEVEL
X LEVEL = FALSE ?
Y
D40
N
TERMINATE I.Ø. CARD = TRUE
CHECK-Y-ITEM-LEVEL
B
F.Ø. NUMBER < LOW K NUMBER ?
Y
D41
N
FLAG I.Ø. CARD = TRUE
D5
CHECK-Y-ITEM-LEVEL
D

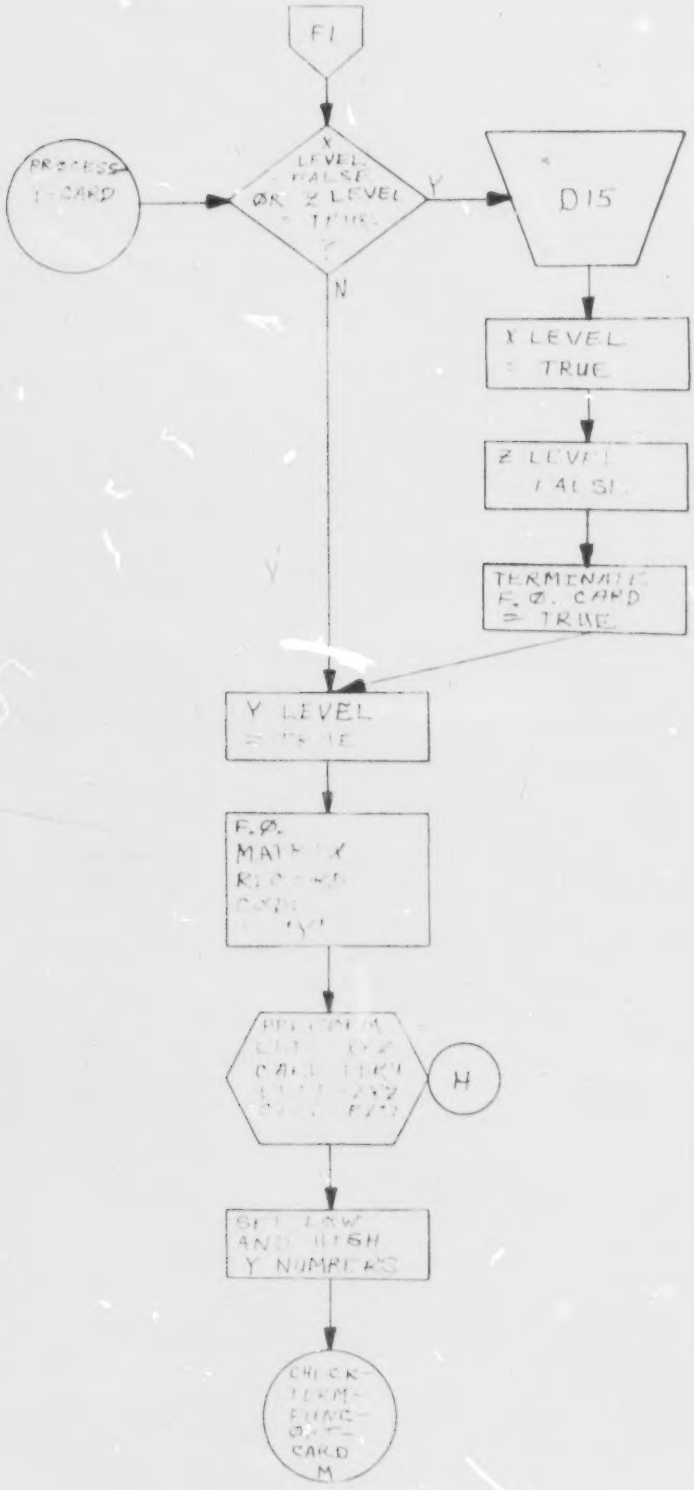

D5
F.Ø. NUMBER > HIGH X NUMBER ?
Y
N
D42
FLAG F.M. CARD = TRUE
CHECK-Y-ITEM-LEVEL
Y
LEVEL = FALSE ?
Y
N
D47
TERMENATE F.Ø. CARD = TRUE
CHECK-Z-ITEM-LEVEL
D
F.Ø. NUMBER < LOW Y NUMBER ?
Y
N
D43
FLAG F.M. CARD = TRUE
CHECK-Z-ITEM-LEVEL
F.Ø. NUMBER > HIGH Y NUMBER ?
Y
N
D44
D6
D6.1

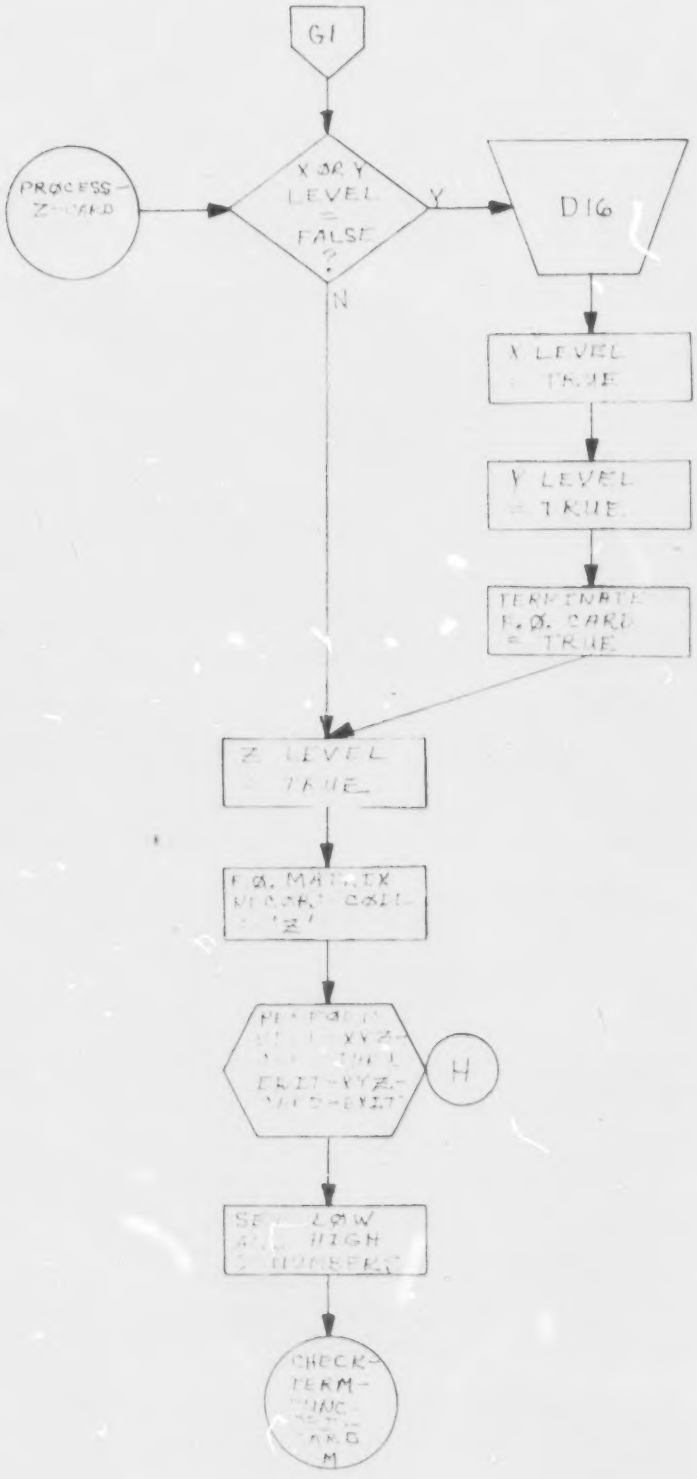

D2
FIRST F.O. CARD AND RECORD TYPE NOT = 'X' ?
Y
N
D18
TERMINATE F.O. CARD = TRUE
FIRST F.O. CARD = FALSE
F.O. NUMBER NOT NUMERIC ?
Y
N
D12
TERMINATE F.O. CARD = TRUE
RECORD TYPE = 'X' ?
Y
N
PROCESS X-CARD
E
RECORD TYPE = 'Y' ?
Y
N
PROCESS Y CARD
F
RECORD TYPE = 'Z' ?
Y
N
PROCESS Z-CARD
G
D3

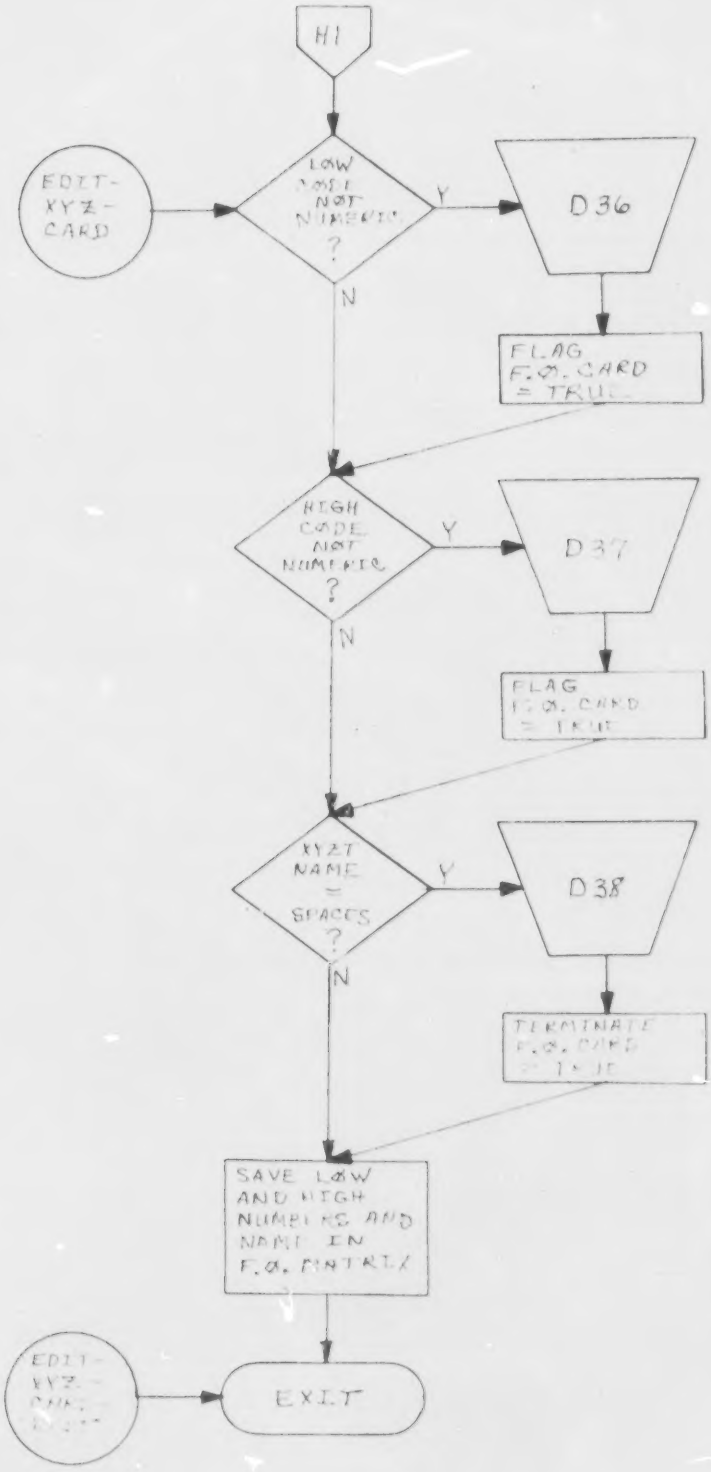

D3
RECORD TYPE = 'T' ?
Y
PROCESS T-CARD
I
N
F.Ø. MATRIX RECORD
DESCRIPTION NAME = SPACES ?
Y
D13
FLAG F.Ø. CARD = TRUE
N
SAVE DESCRIPTION NAME
F.Ø. NUMBER = NEXT NUMERIC ?
Y
D39
TERMINATE F.Ø. CARD = TRUE
CHECK TERM FUNC DEF CARD
M
N
SAVE F.Ø. NUMBER
D4

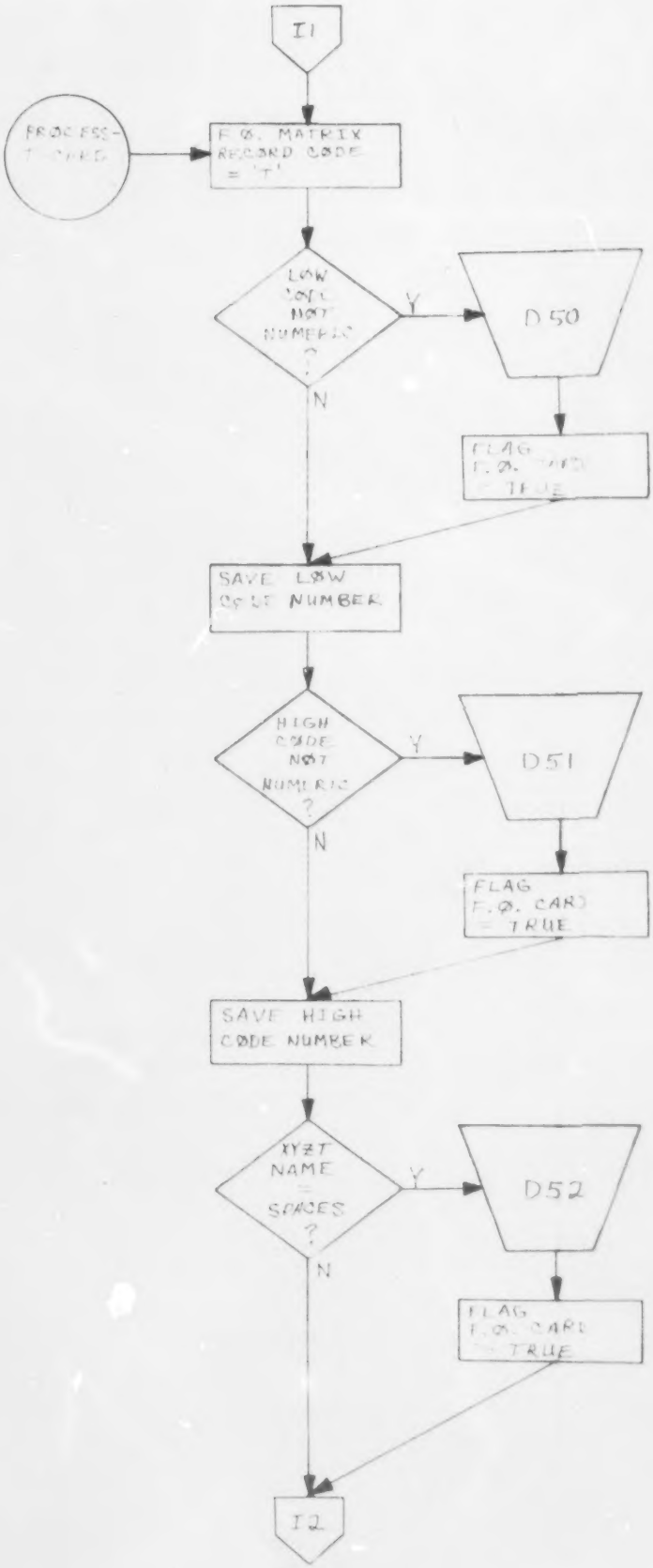

D6
D6.1
FLAG
F.Ø. CARD
= TRUE
CHECK-
Z-ITEM-
LEVEL
Z-
LEVEL
=
FALSE
?
Y
D48
N
TERMINATE
F.Ø. CARD
TRUE
CHECK-
TERM-
FUNC-
ØBJ-
CARD
M
F.Ø.
NUMBER
<
LOW Z
NUMBER
?
Y
D45
N
FLAG
F.Ø. CARD
= TRUE
CHECK-
TERM-
FUNC-
ØBJ-
CARD
M
F.Ø.
NUMBER
>
HIGH Z
NUMBER
?
Y
D46
N
FLAG
F.Ø. CARD
= TRUE
CHECK-
TERM-
FUNC-
ØBJ-
CARD
M

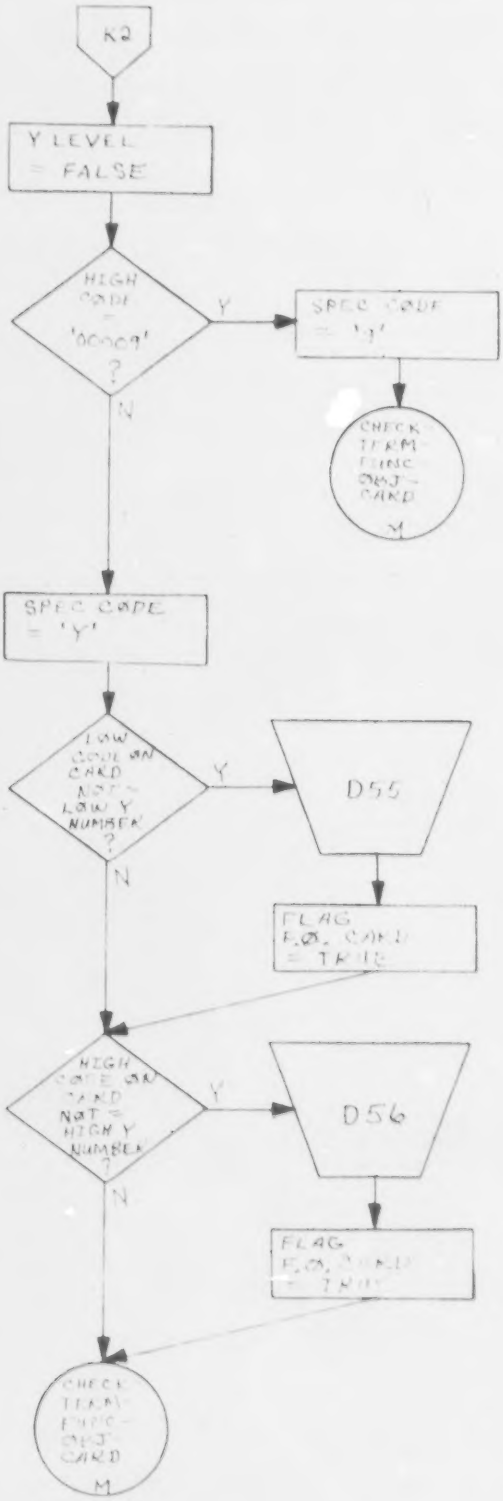

E1
PROCESS-
Y OR Z
LEVEL
?
Y
D14
N
Y LEVEL
= FALSE
Z LEVEL
FALSE
TERMINATE
F.Ø. CARD
= TRUE
X LEVEL
= TRUE
F.Ø
MAINLIX
RECORD
CON
= 'X'
PERFORM
EDIT-XYZ-
CARD THRU
EDIT-XYZ-
CARD-EXIT
H
SET LØW
HIGH
X NUMBERS
CHECK-
TERM-
FUNC-
REJ-
CARD
M

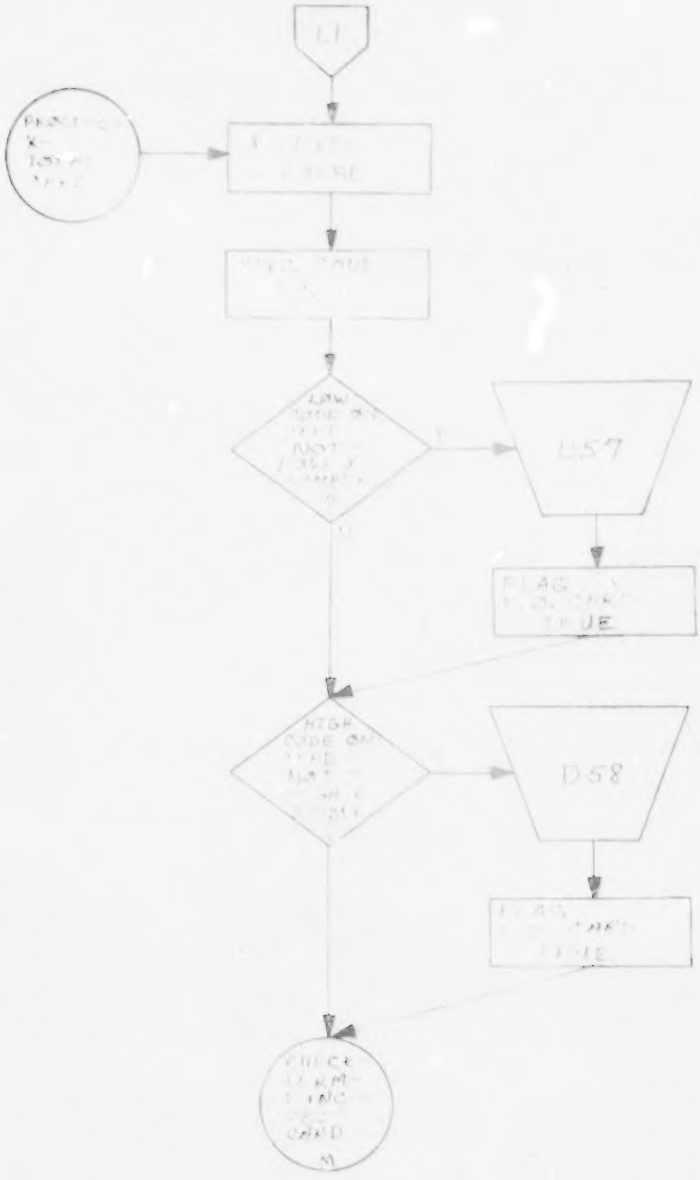

F1
X LEVEL FALSE OR Z LEVEL = TRUE
Y
N
D15
X LEVEL = TRUE
Z LEVEL FALSE
TERMINATE F.Ø. CARD = TRUE
Y LEVEL
F.Ø.
H
CHECK TERM- FUNC- CARD
M

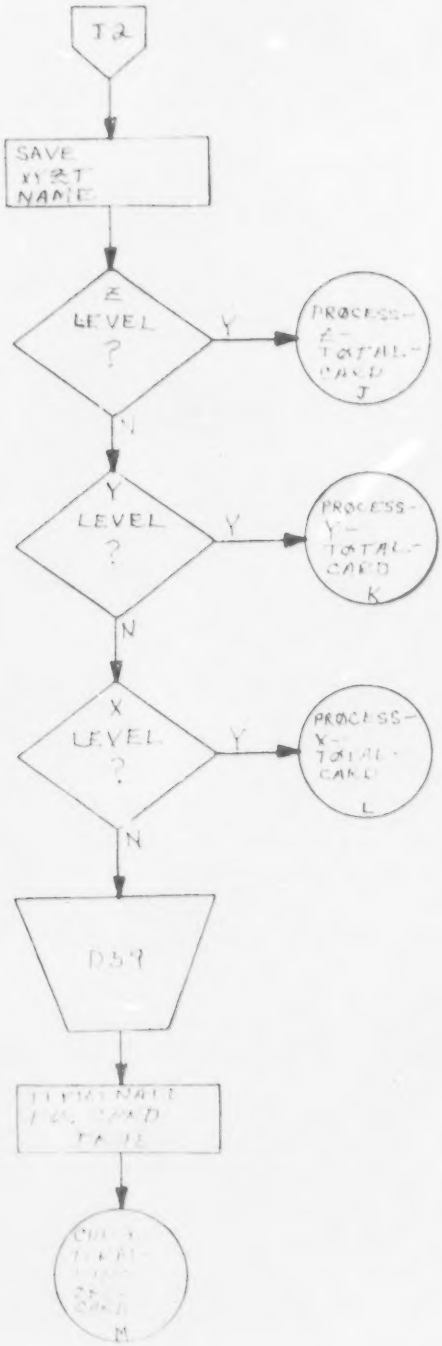

G1
PROCESS-
Z-CARD
X OR Y
LEVEL
=
FALSE
?
Y
N
DIG
X LEVEL
= TRUE
Y LEVEL
= TRUE
TERMINATE
F.Ø. CARD
= TRUE
Z LEVEL
= TRUE
F.Ø. MATRIX
H
SE LOW
HIGH
CHECK-
TERM-
AND
M

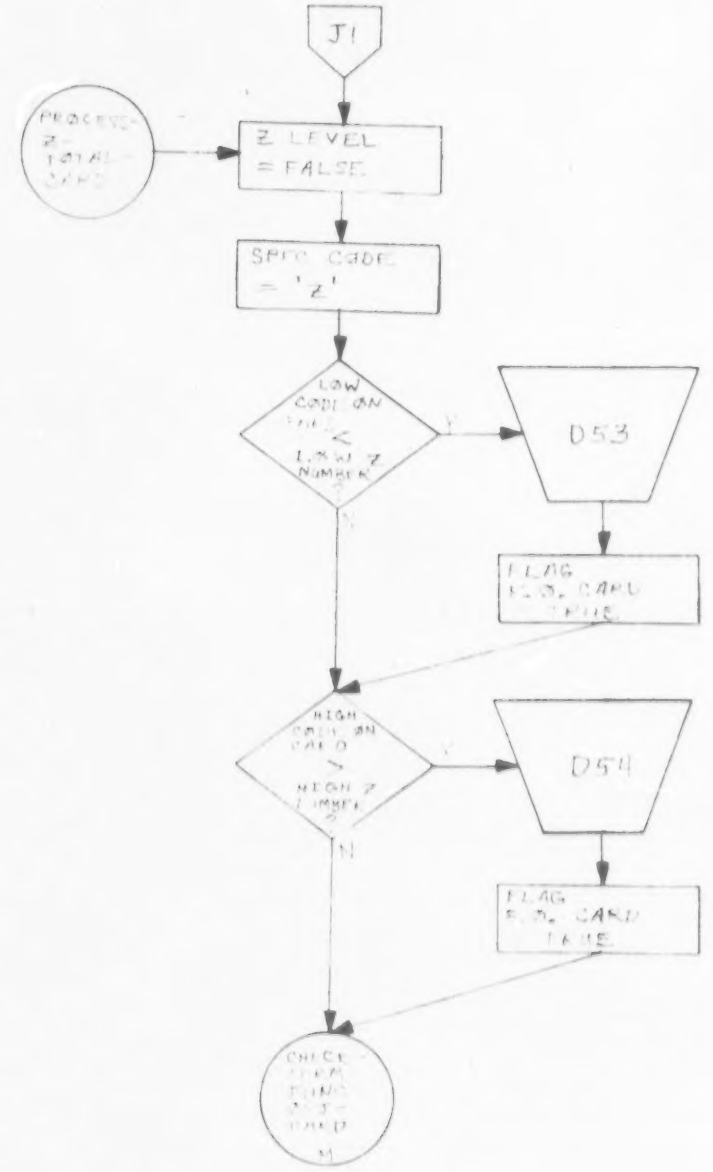

HI
EDIT-XYZ-CARD
LOW NOT NUMERIC ?
Y
D36
N
FLAG F.Ø. CARD = TRUE
HIGH CODE NOT NUMERIC ?
Y
D37
N
FLAG F.Ø. CARD = TRUE
XYZT NAME = SPACES ?
Y
D38
N
TERMINATE F.Ø. CARD = TRUE
SAVE LOW AND HIGH NUMBERS AND NAME IN F.Ø. MATRIX
EDIT-XYZ-
EXIT

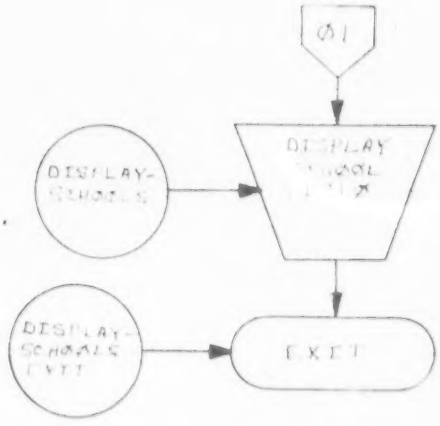

I1
PROCESS-
F.Ø. MATRIX
RECORD CODE
= 'T'
LØW
CODE
NØT
NUMERIC
?
Y
D50
N
FLAG
F.Ø. CARD
= TRUE
SAVE LØW
CODE NUMBER
HIGH
CODE
NØT
NUMERIC
?
Y
D51
N
FLAG
F.Ø. CARD
= TRUE
SAVE HIGH
CODE NUMBER
XYZT
NAME
=
SPACES
?
Y
D52
N
FLAG
F.Ø. CARD
= TRUE
I2

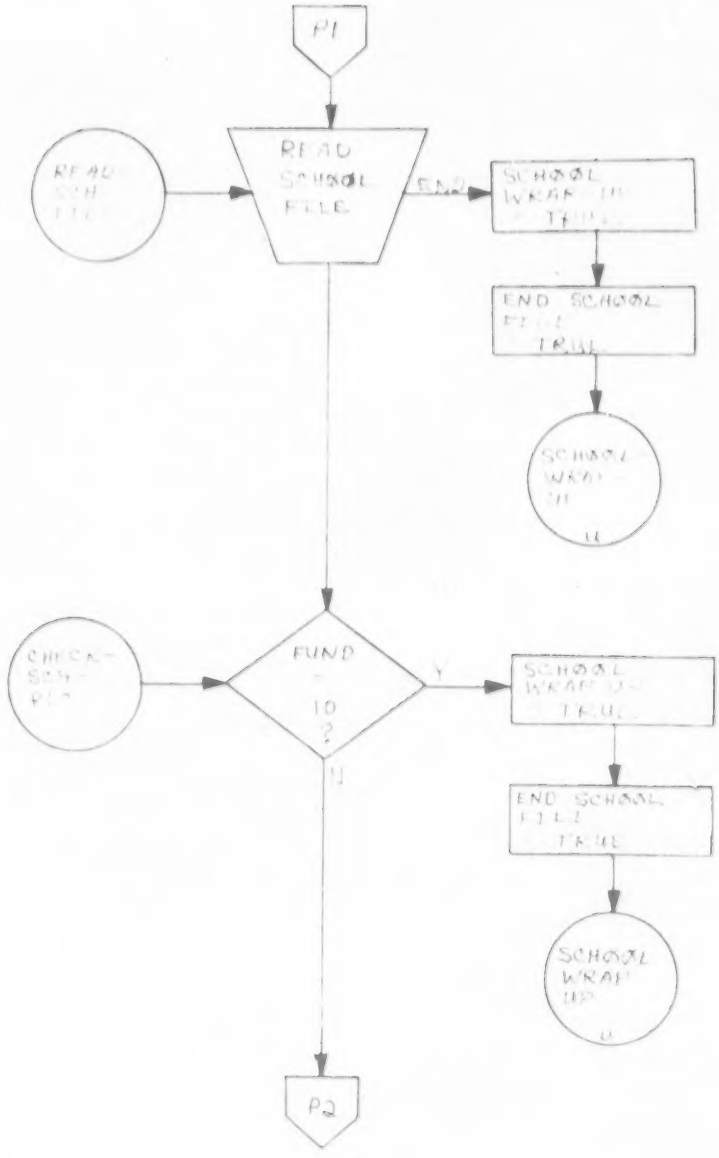

K2
Y LEVEL = FALSE
HIGH CODE = '000C9' ?
Y
N
SPEC CODE = 'Y'
CHECK TERM FUNC OBJ CARD
M
SPEC CODE = 'Y'
LOW CODE ON CARD NOT = LOW Y NUMBER ?
Y
N
D55
FLAG E.O. CARD = TRUE
HIGH CODE ON CARD NOT = HIGH Y NUMBER ?
Y
N
D56
FLAG E.O. CARD = TRUE
CHECK TERM FUNC OBJ CARD
M

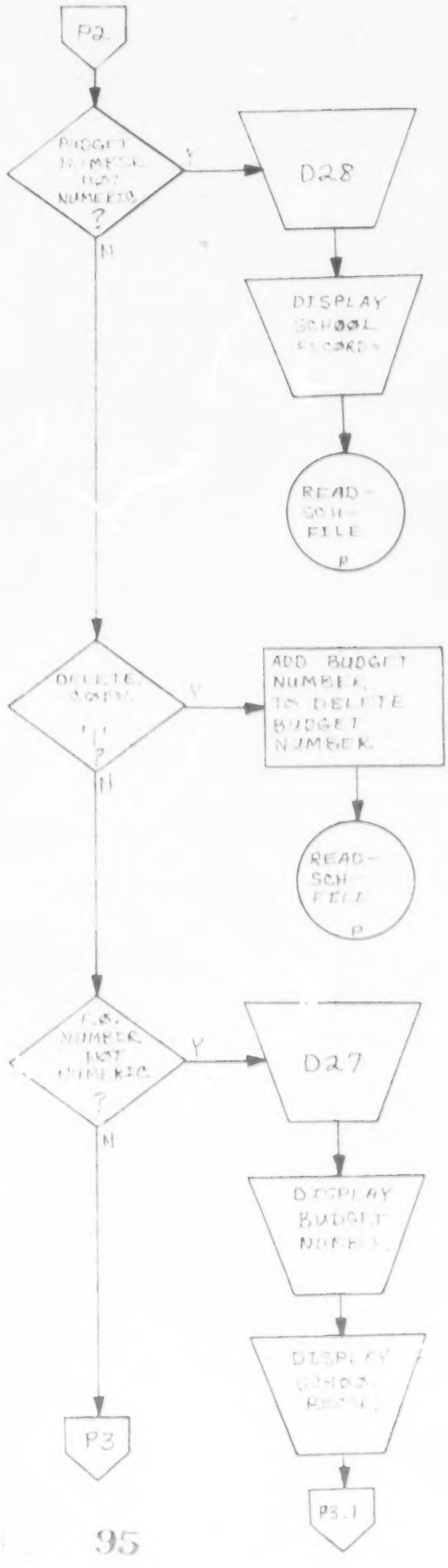

L1
D57
D58
M1
D60
M2
M2.1

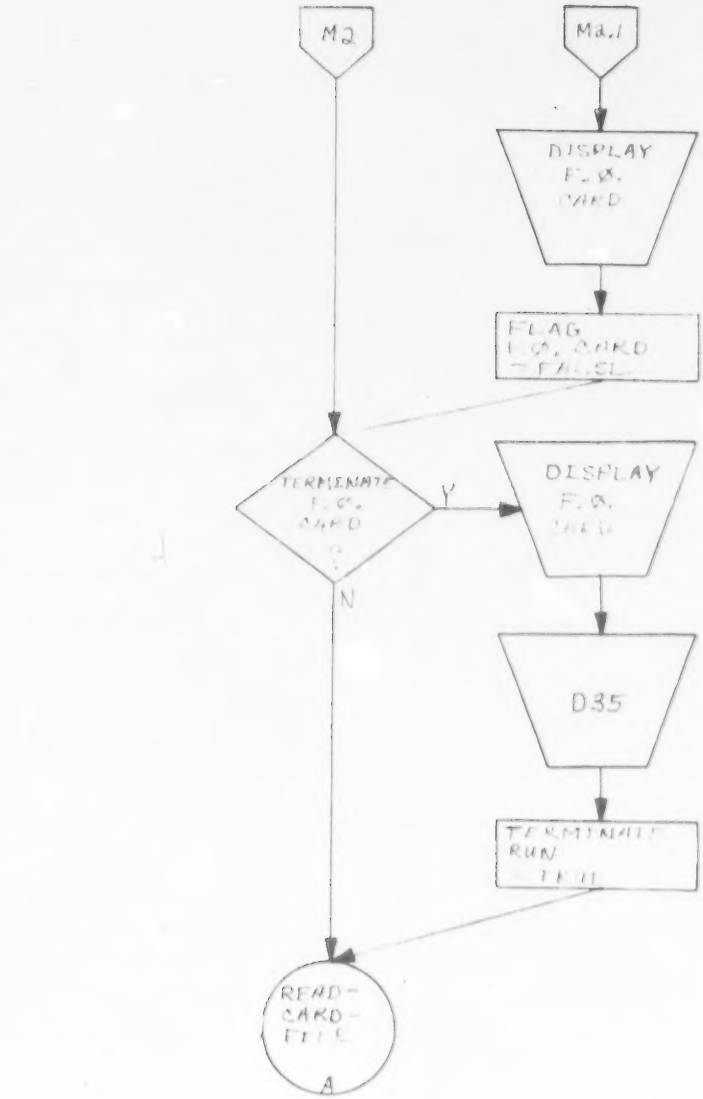

T2
SAVE
NAME
Z
LEVEL
?
Y
PROCESS-
Z-
TOTAL-
CARD
J
N
Y
LEVEL
?
Y
PROCESS-
Y-
TOTAL-
CARD
K
N
X
LEVEL
?
Y
PROCESS-
X-
TOTAL-
CARD
L
N
D59

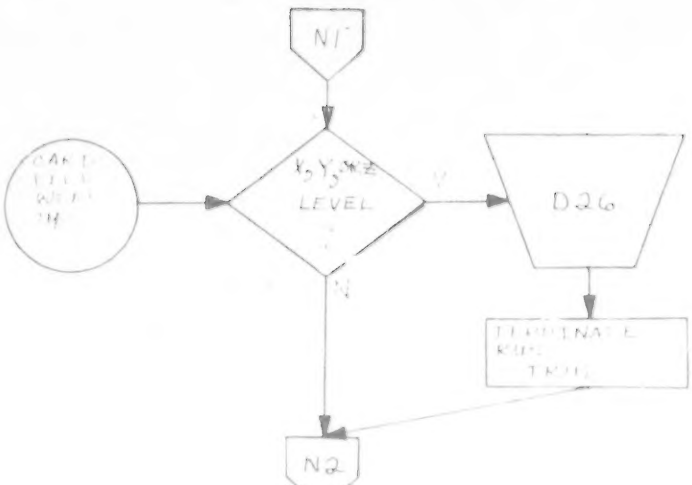

J1
Z LEVEL
= FALSE
SPEC CODE
= 'Z'
D53
D54
K1
SPEC CODE
= '0'
K2

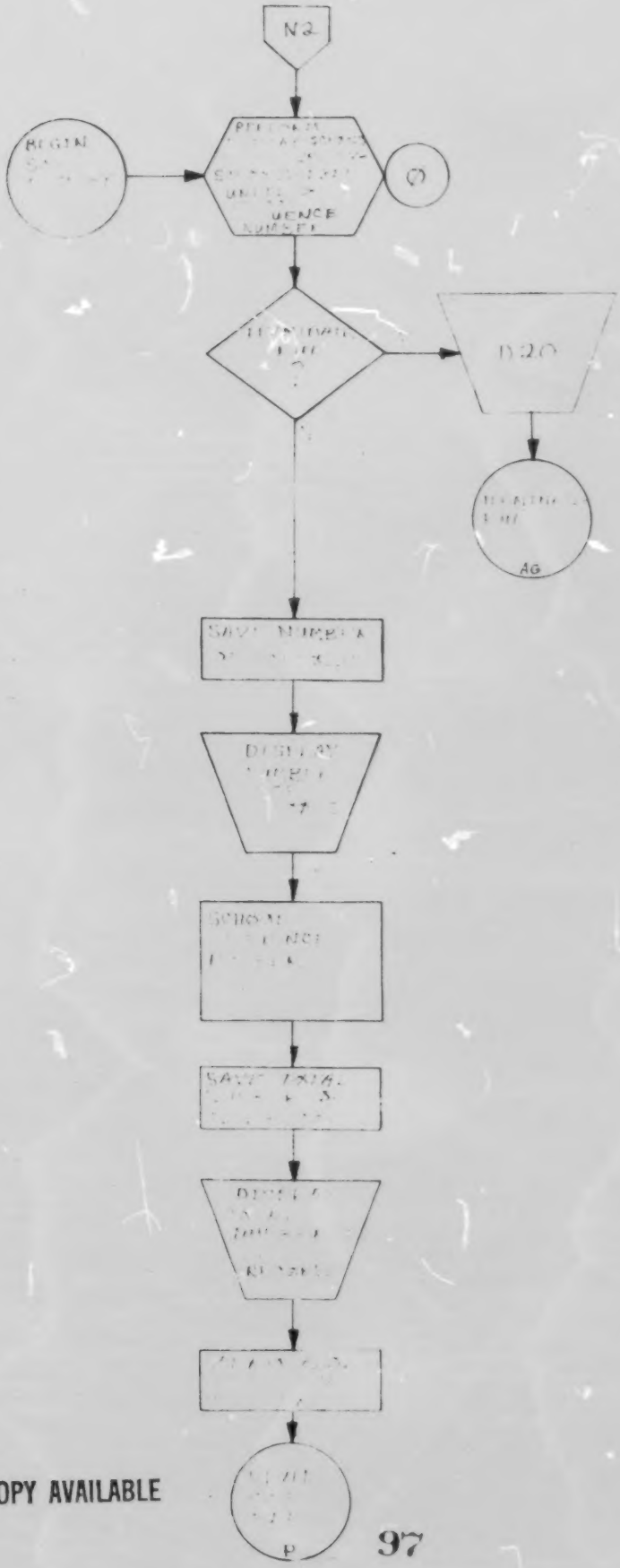

Ø1
DISPLAY-
EXIT
DISPLAY-
SCHOOLS
EXIT


P1
READ
SCHOOL
FILE
END
TRUE
END SCHOOL
FILE
TRUE
FUND
=
10
?
Y
N
TRUE
END SCHOOL
FILE
TRUE
P2


P2
BUDGET NUMBER NOT NUMERIC ?
Y
D28
DISPLAY SCHOOL RECORD
READ-SCH-FILE
P
N
DELETE CODE = '1' ?
Y
ADD BUDGET NUMBER TO DELETE BUDGET NUMBER
READ-SCH-FILE
P
N
F&S NUMBER NOT NUMERIC ?
Y
D27
DISPLAY BUDGET NUMBER
DISPLAY SCHOOL RECORD
N
P3
P3.1


M2
M2.1
DISPLAY F.S. CARD
FLAG F.S. CARD = FALSE
TERMINATE F.S. CARD
Y
DISPLAY F.S. CARD
N
D35
TERMINATE RUN
READ-CARD-FILE
A


N1
LEVEL
Y
D26
TERMINATE RUN
N2



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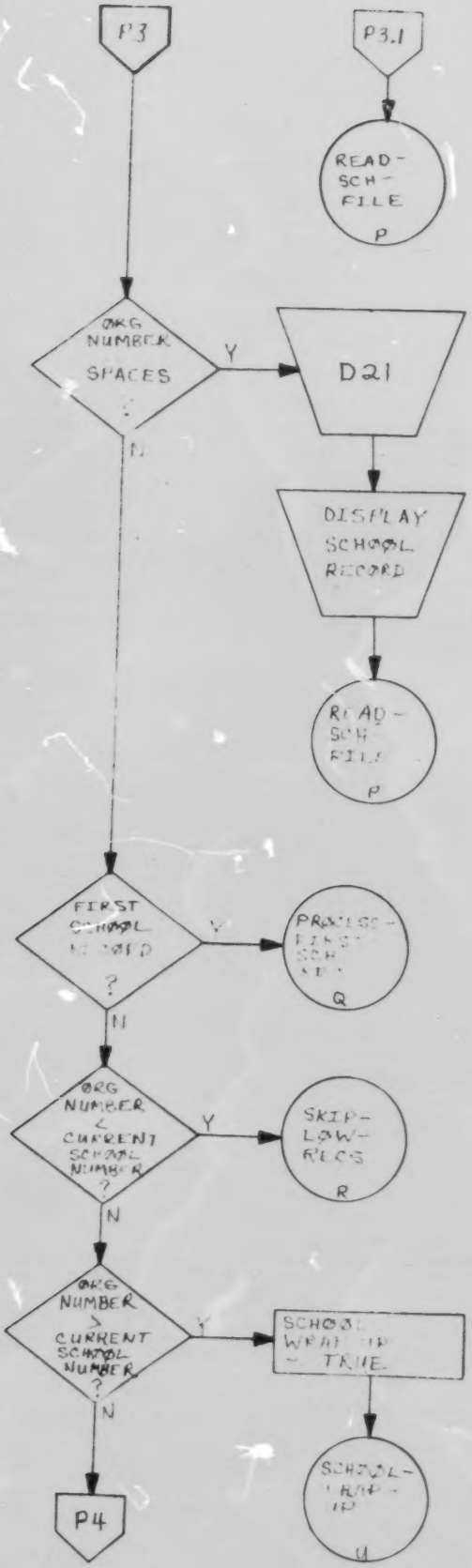
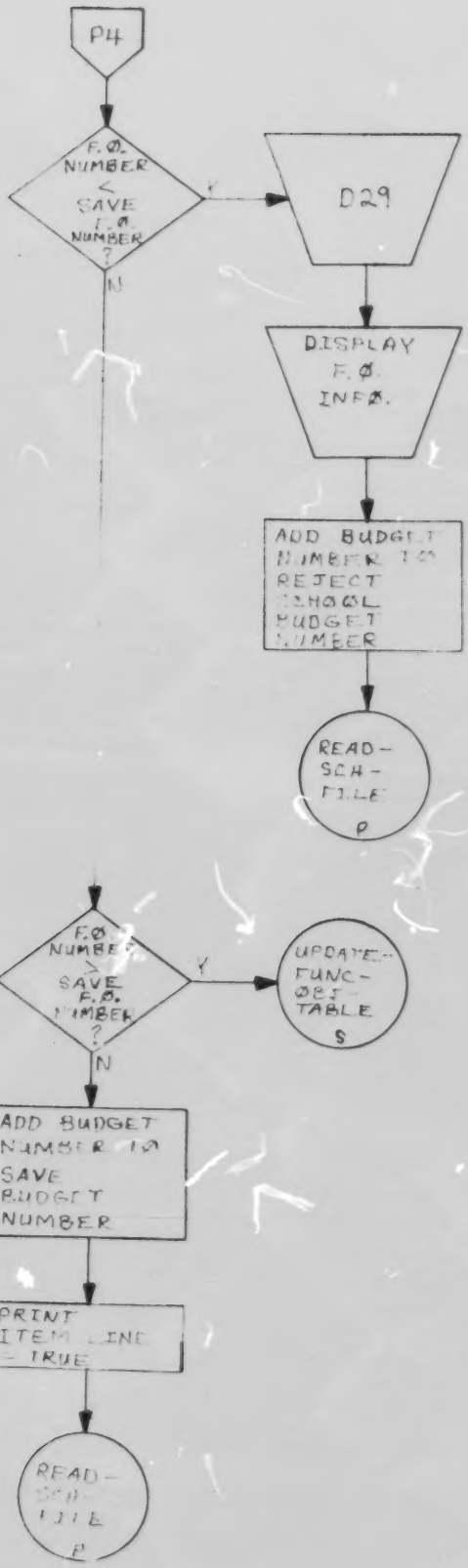
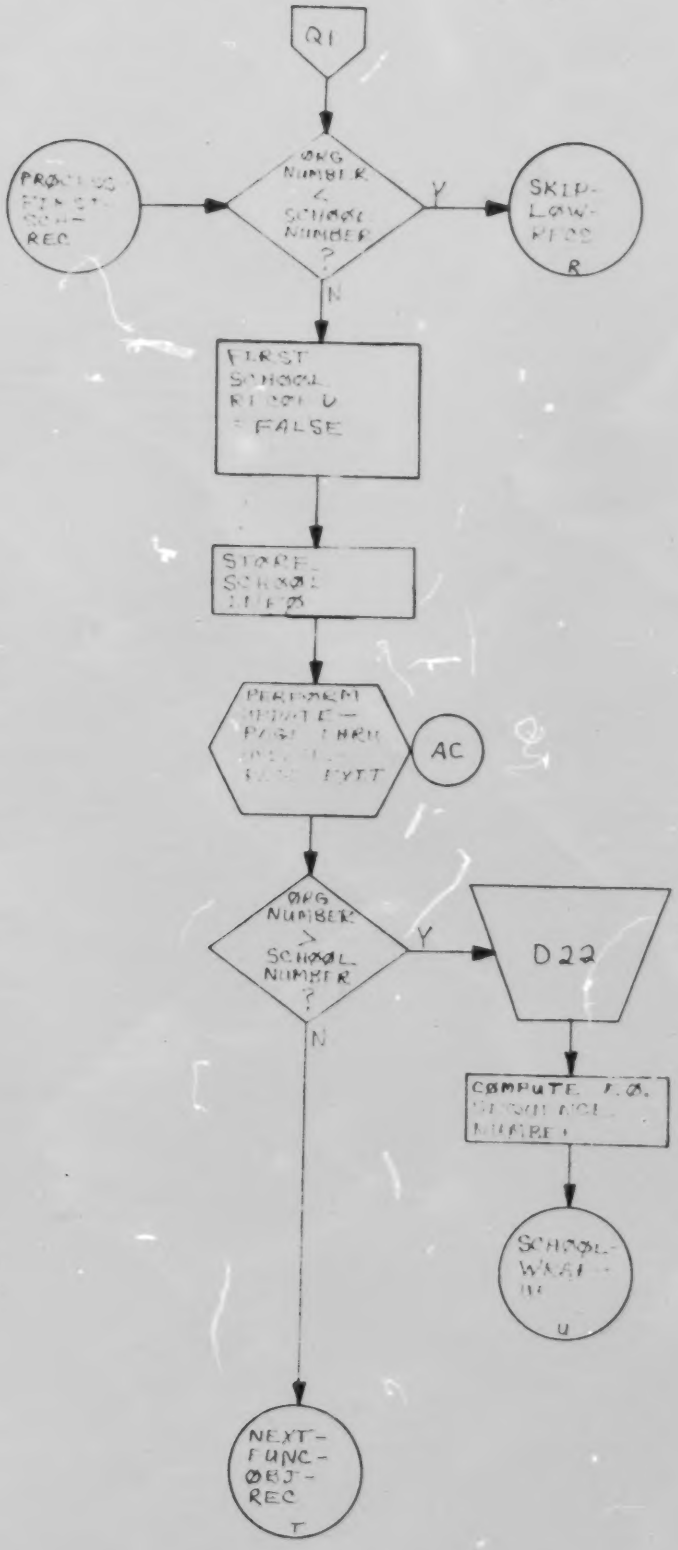
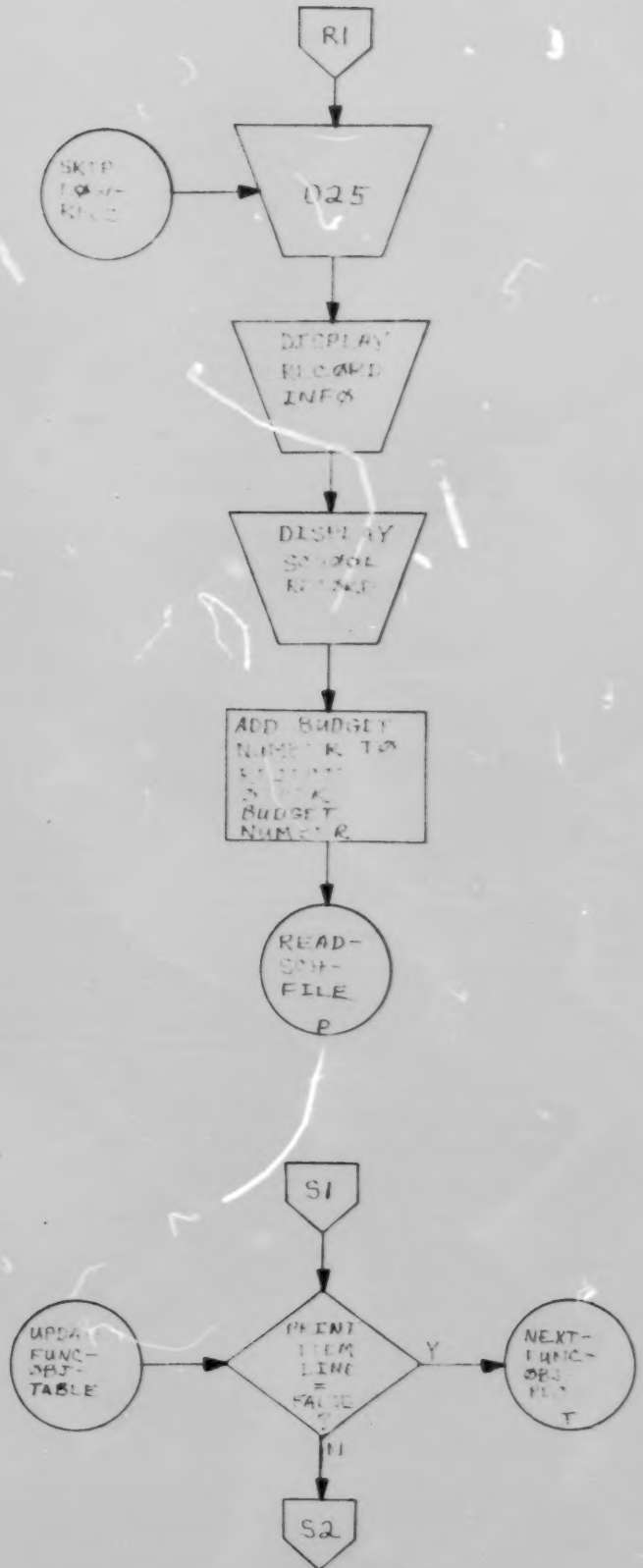
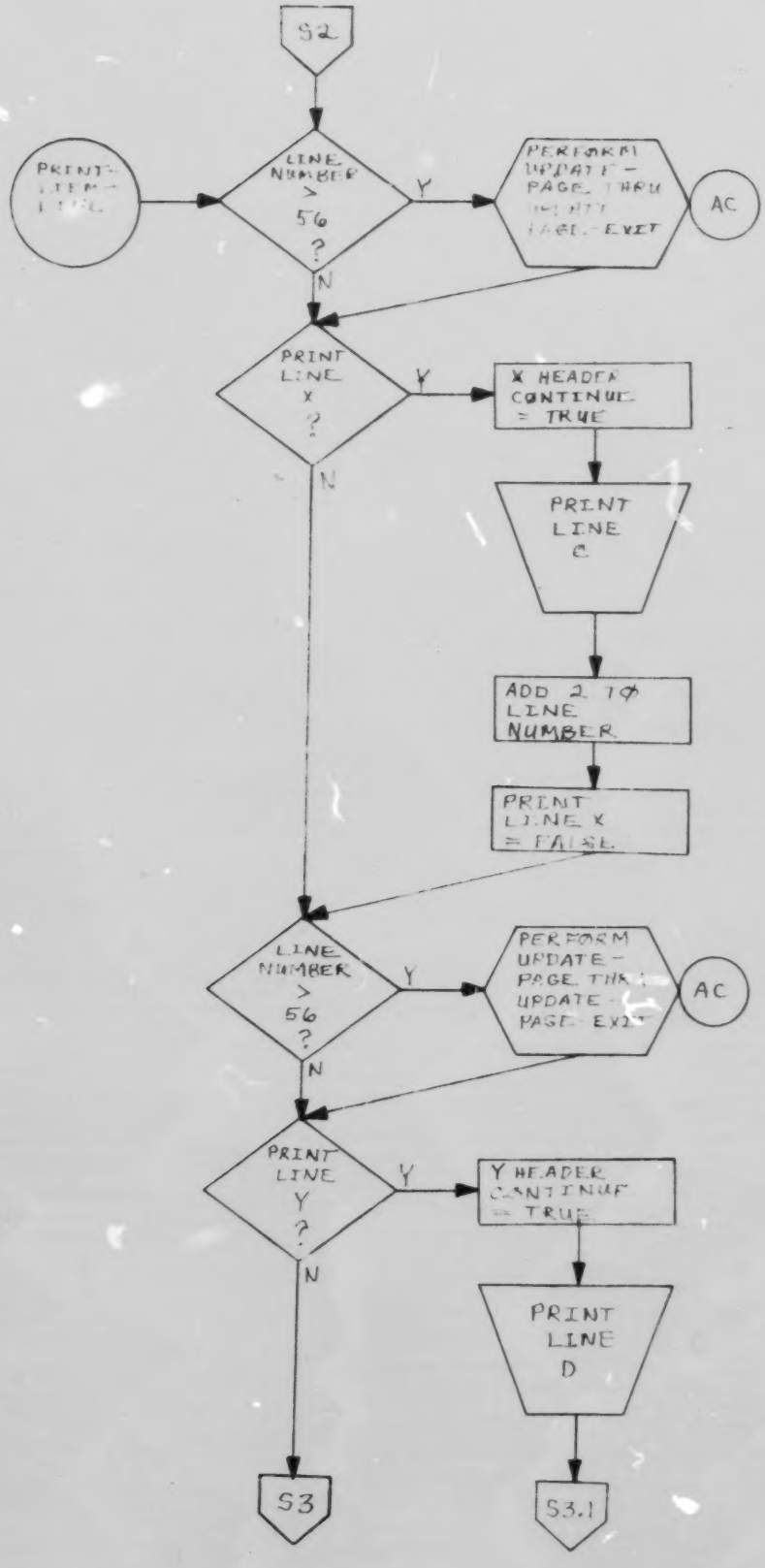
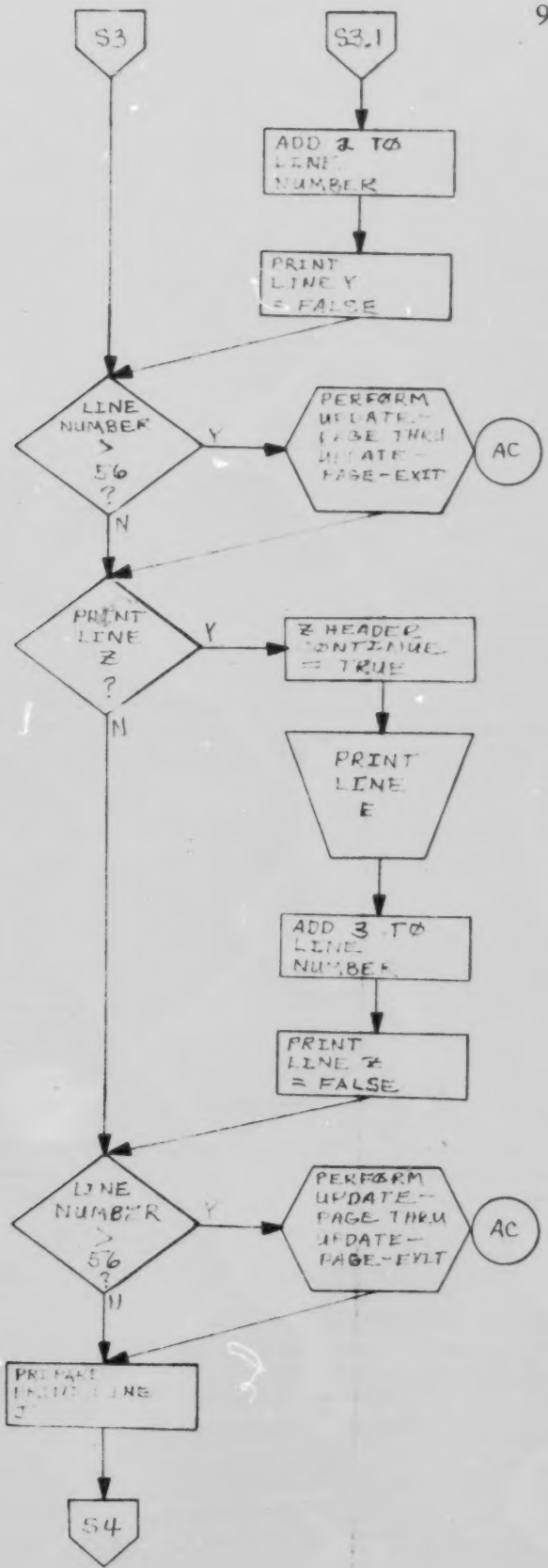

P3
P3.1
READ-SCH-FILE
P
ORG NUMBER SPACES ?
Y
D21
N
DISPLAY SCHOOL RECORD
READ-SCH-FILE
P
FIRST SCHOOL RECORD ?
Y
PROCESS-FIRST-SCH-REC
Q
N
ORG NUMBER < CURRENT SCHOOL NUMBER ?
Y
SKIP-LOW-RECS
R
N
ORG NUMBER > CURRENT SCHOOL NUMBER ?
Y
SCHOOL-WRAP-UP = TRUE
N
P4
SCHOOL-WRAP-UP
U

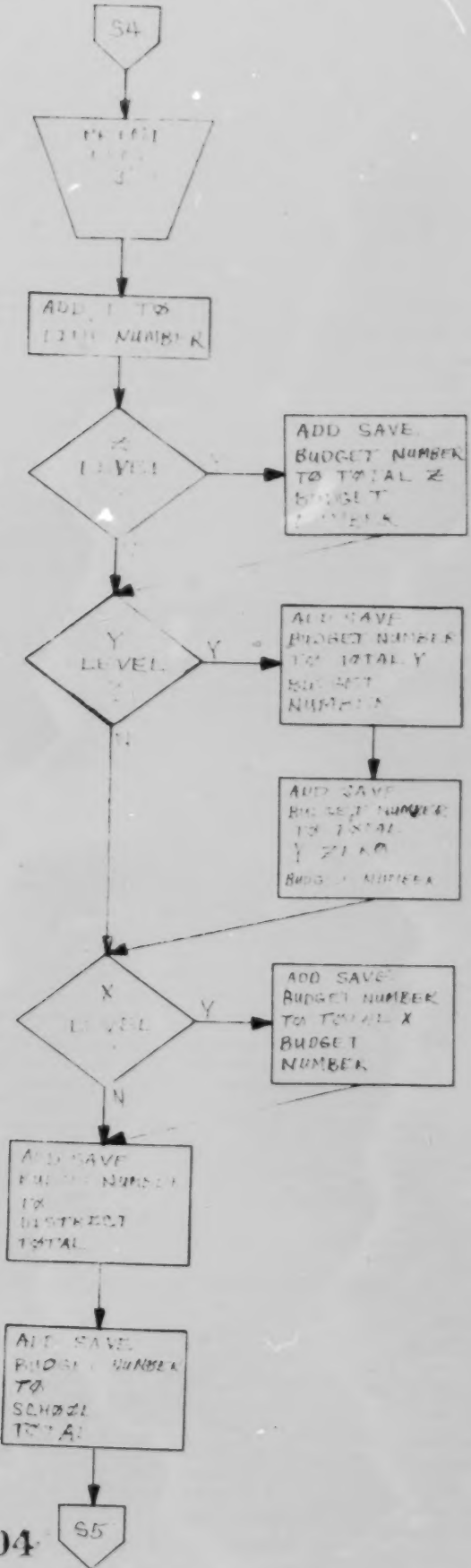

P4
F.Ø. NUMBER < SAVE F.Ø. NUMBER ?
Y
N
D29
DISPLAY F.Ø. INFØ.
ADD BUDGET NUMBER TØ REJECT SCHØØL BUDGET NUMBER
READ-SCH-FILE P
F.Ø. NUMBER > SAVE F.Ø. NUMBER ?
Y
N
UPDATE-FUNC-ØBJ-TABLE $
ADD BUDGET NUMBER TØ SAVE BUDGET NUMBER
PRINT ITEM LINE = TRUE
READ-SCH-FILE P


Q1
ORG NUMBER < SCHOOL NUMBER ?
Y
N
SKIP-LOW-REC
R
FIRST SCHOOL RECORD = FALSE
STORE SCHOOL
AC
ORG NUMBER > SCHOOL NUMBER ?
Y
N
D22
SCHOOL-WAIT
U
NEXT-FUNC-OBJ-REC
T


R1
025
DISPLAY
INFØ
DISPLAY
ADD BUDGET
BUDGET
READ-
FILE
P
S1
PRINT
ITEM
LINE
=
Y
N
S2
T


S2
LINE NUMBER > 56 ?
Y
N
AC
PRINT LINE X ?
X HEADER CONTINUE = TRUE
PRINT LINE C
ADD 2 TO LINE NUMBER
PRINT LINE X = FALSE
LINE NUMBER > 56 ?
AC
PRINT LINE Y ?
Y HEADER CONTINUE = TRUE
PRINT LINE D
S3
S3.1


S3
S3.1
ADD 2 TO LINE NUMBER
PRINT LINE Y = FALSE
LINE NUMBER > 56 ?
Y
PERFORM UPDATE-PAGE THRU UPDATE-PAGE-EXIT
AC
N
PRINT LINE Z ?
Y
Z HEADER CONTINUE = TRUE
N
PRINT LINE E
ADD 3 TO LINE NUMBER
PRINT LINE Z = FALSE
LINE NUMBER > 56 ?
Y
PERFORM UPDATE-PAGE THRU UPDATE-PAGE-EXIT
AC
N
S4



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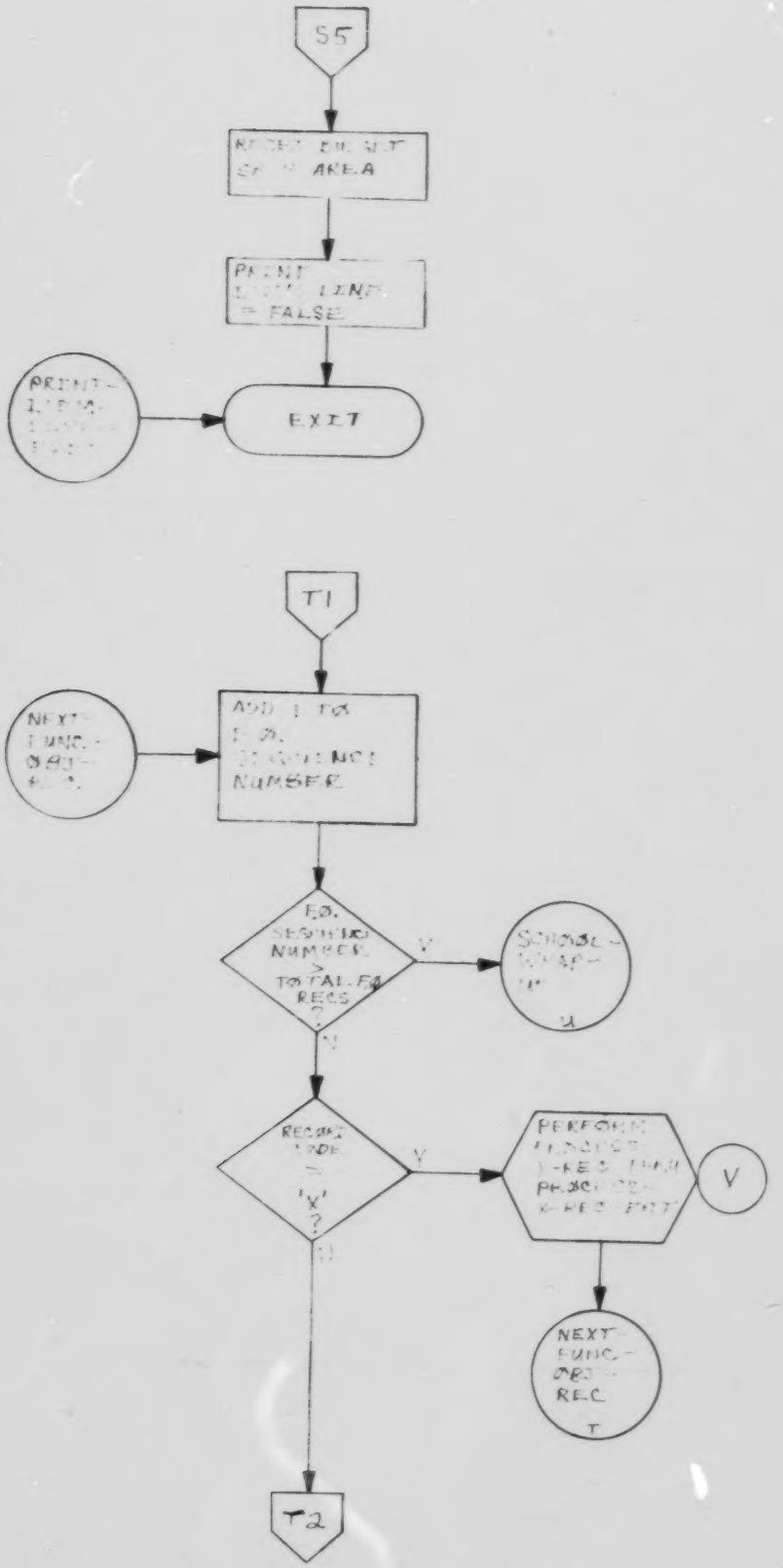
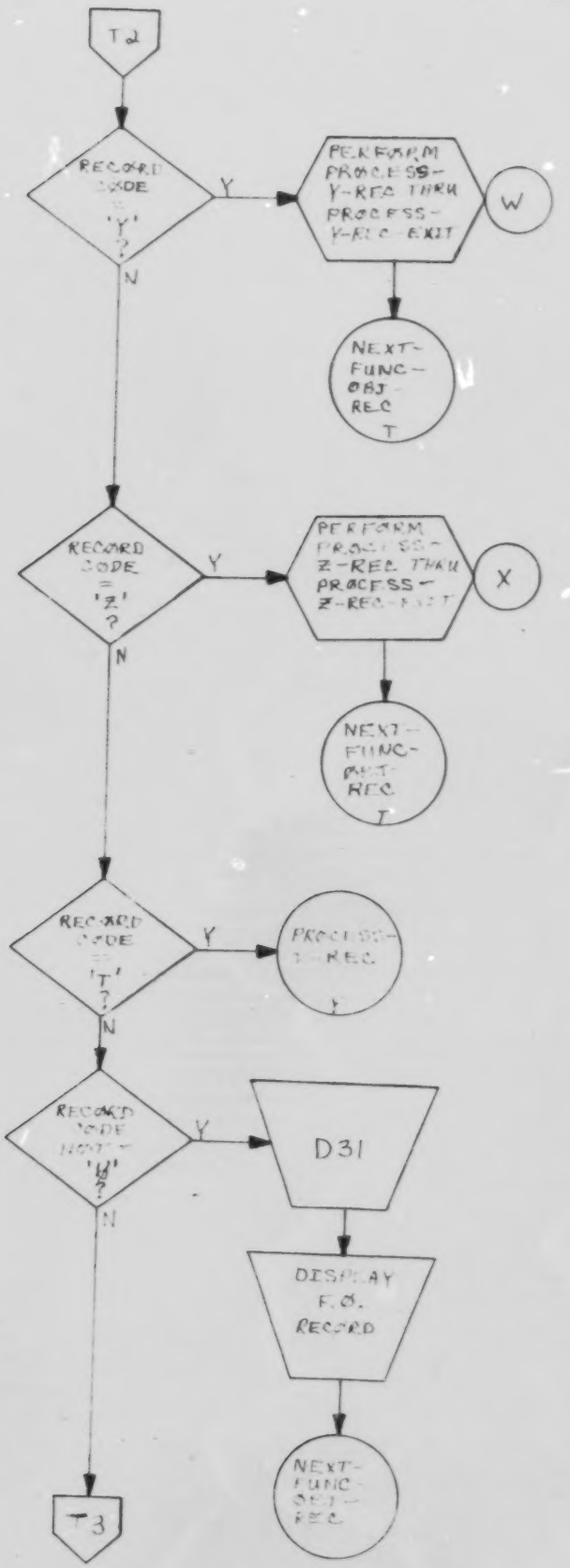
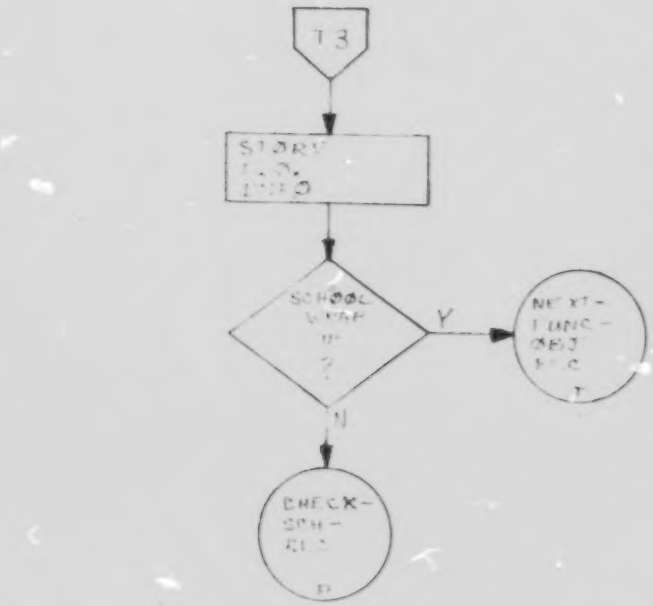
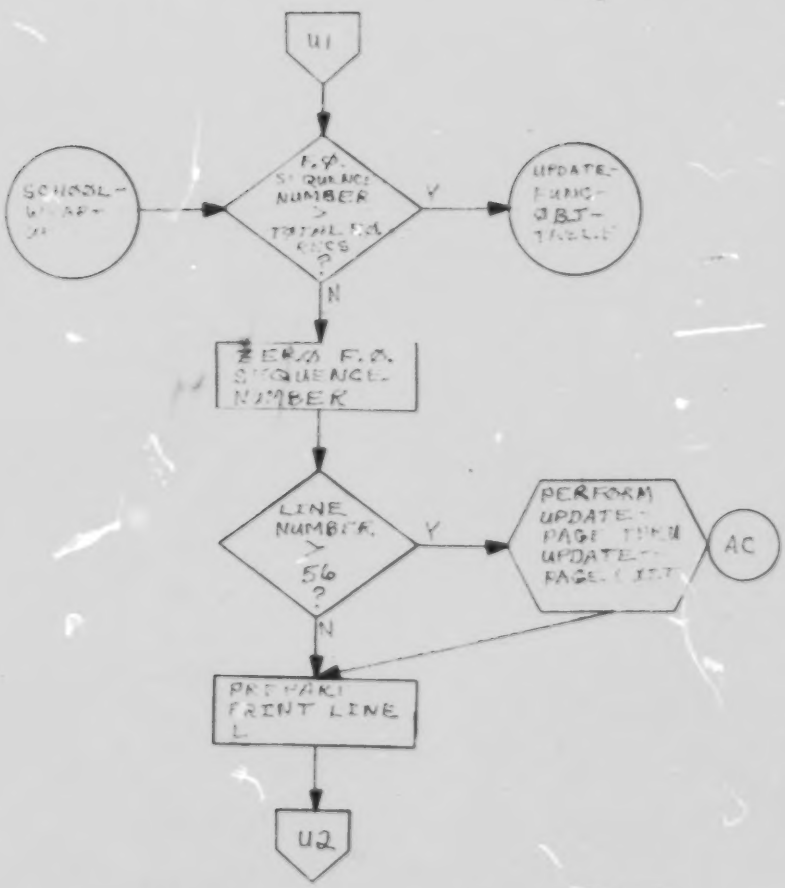
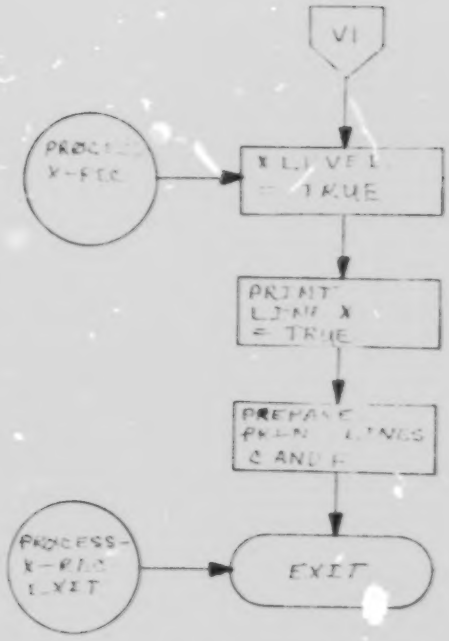
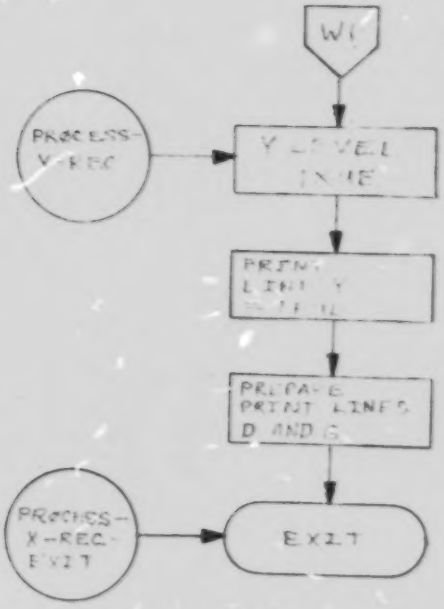

S5
AREA
LINE
= FALSE
EXIT
T1
ADD 1 TO
NUMBER
Y
N
'X'
?
Y
V
NEXT
REC
T2

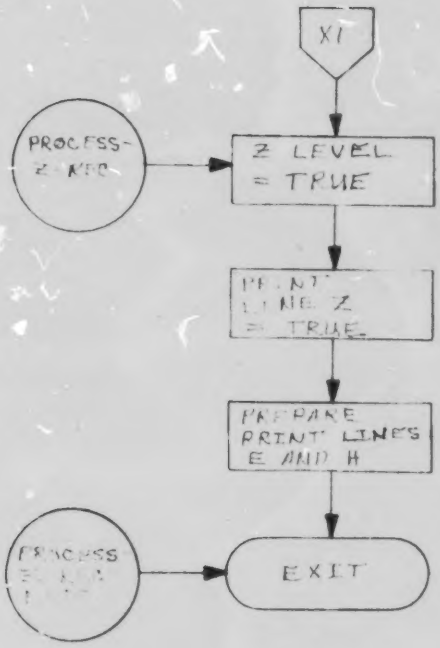

T2
RECORD CODE = 'Y' ?
Y
N
PERFORM PROCESS-Y-REC THRU PROCESS-Y-REC-EXIT
W
NEXT-FUNC-OBJ-REC
T
RECORD CODE = 'Z' ?
Y
N
PERFORM PROCESS-Z-REC THRU PROCESS-Z-REC-EXIT
X
NEXT-FUNC-OBJ-REC
T
RECORD CODE = 'T' ?
Y
N
PROCESS-T-REC
Y
RECORD CODE NOT = 'U' ?
Y
N
D31
DISPLAY F.O. RECORD
NEXT-FUNC-OBJ-REC
T3

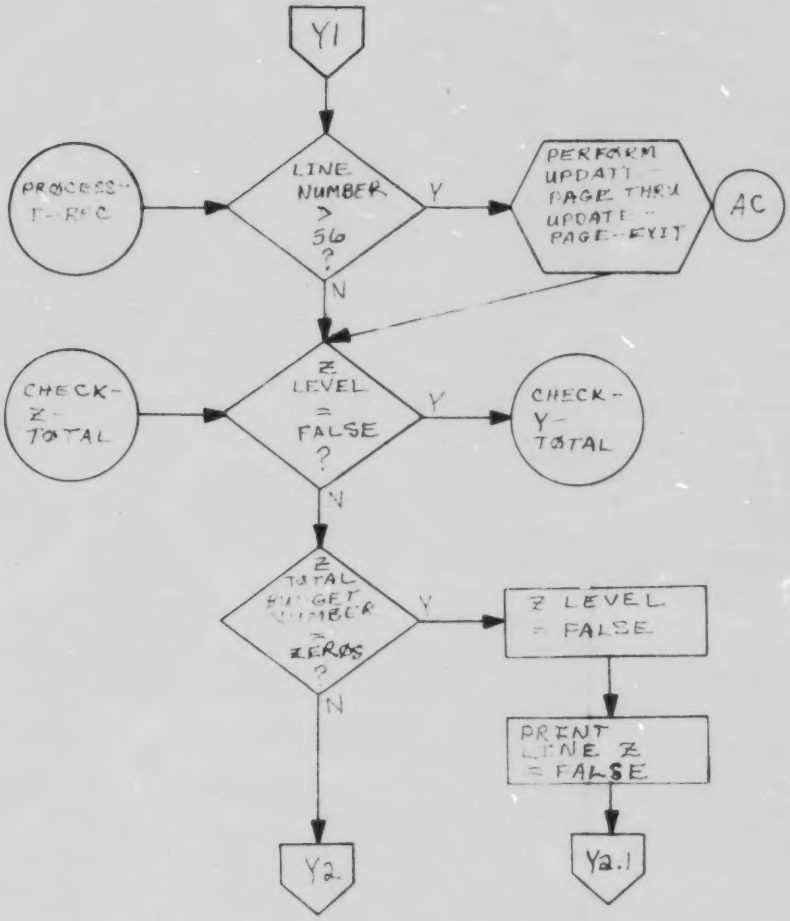

T3
Y
N

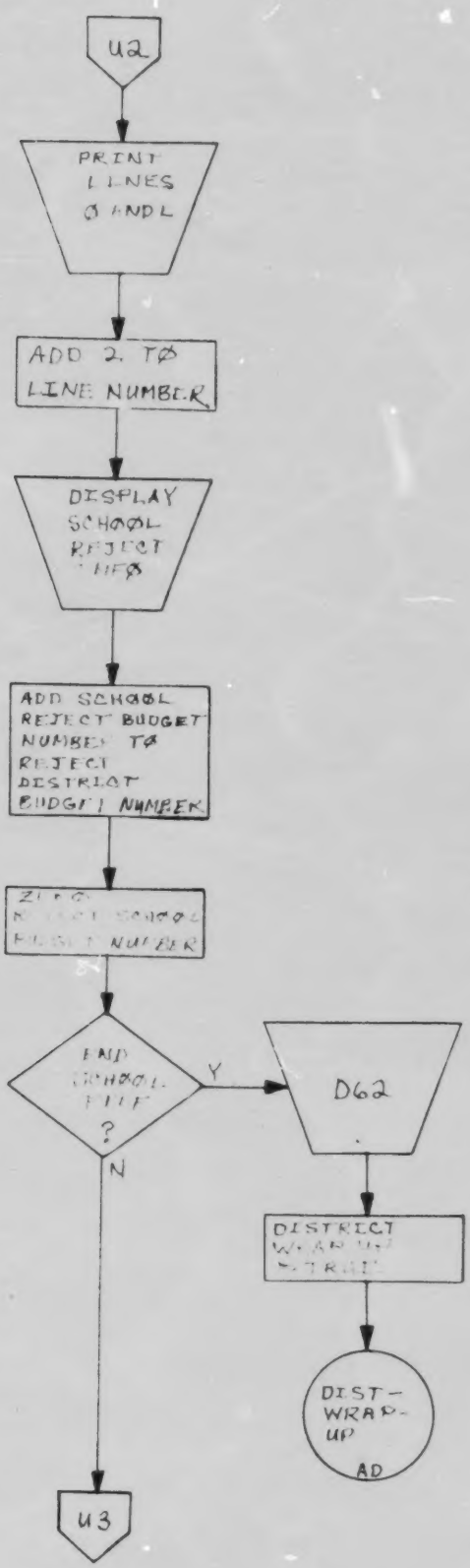

U1
Y
N
LINE
NUMBER
>
56
?
Y
N
U2

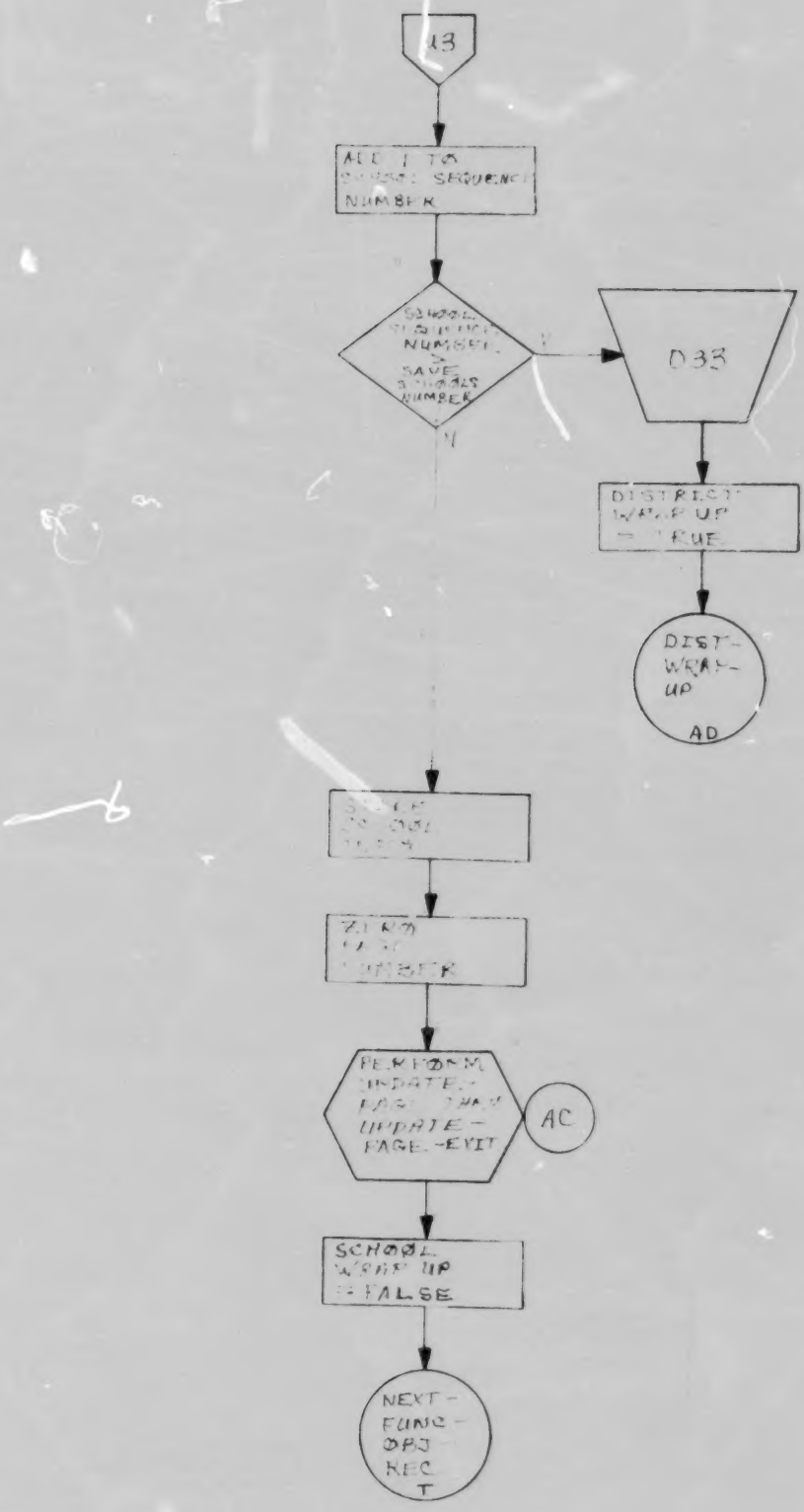

VI
PROCESS-
X-REC
X LEVEL
= TRUE
PRINT
LINE X
= TRUE
PREPARE
PRINT LINES
C AND D
PROCESS-
X-REC
EXIT

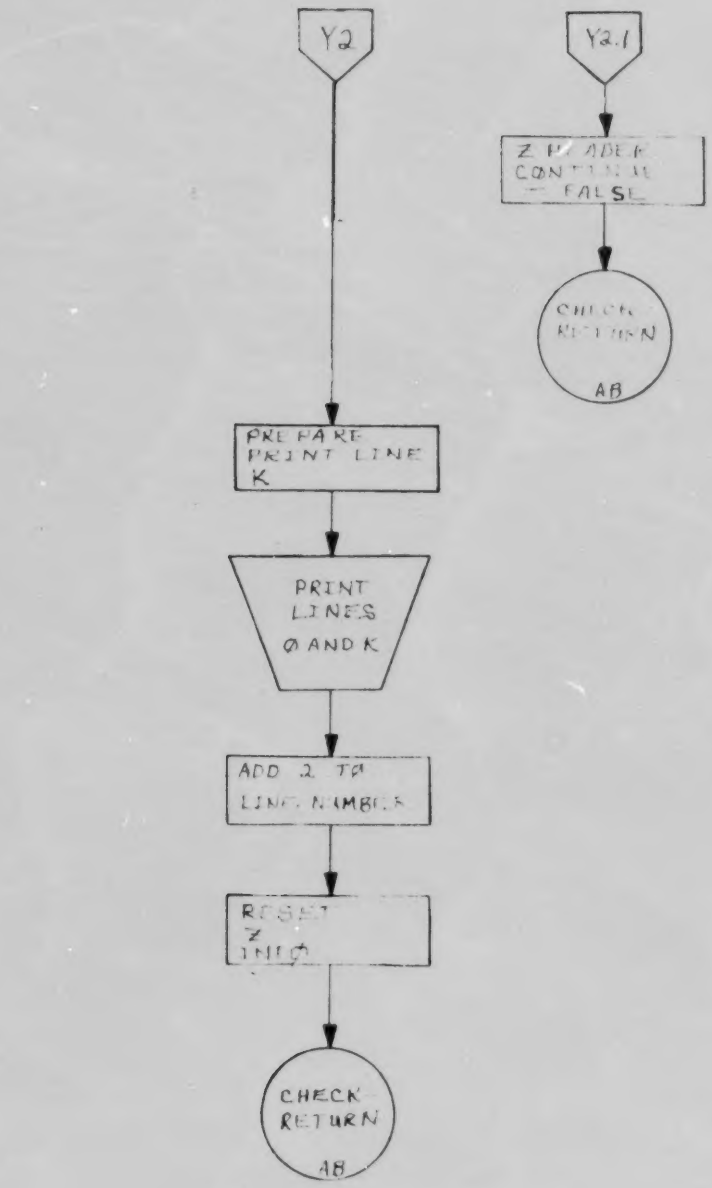

WI
PROCESS-
Y-REC
Y LEVEL
TRUE
PRINT
LINE Y
PREPARE
PRINT LINES
C AND D
PROCESS-
X-REC-
EXIT
EXIT

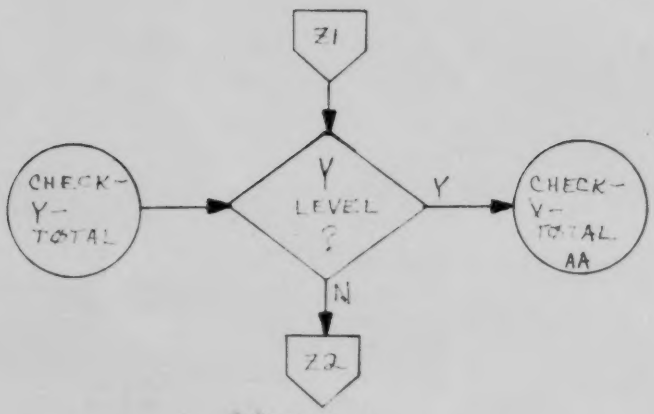

X1
PROCESS-
Z-REC
Z LEVEL
= TRUE
PRINT
LINE Z
= TRUE
PREPARE
PRINT LINES
E AND H
EXIT

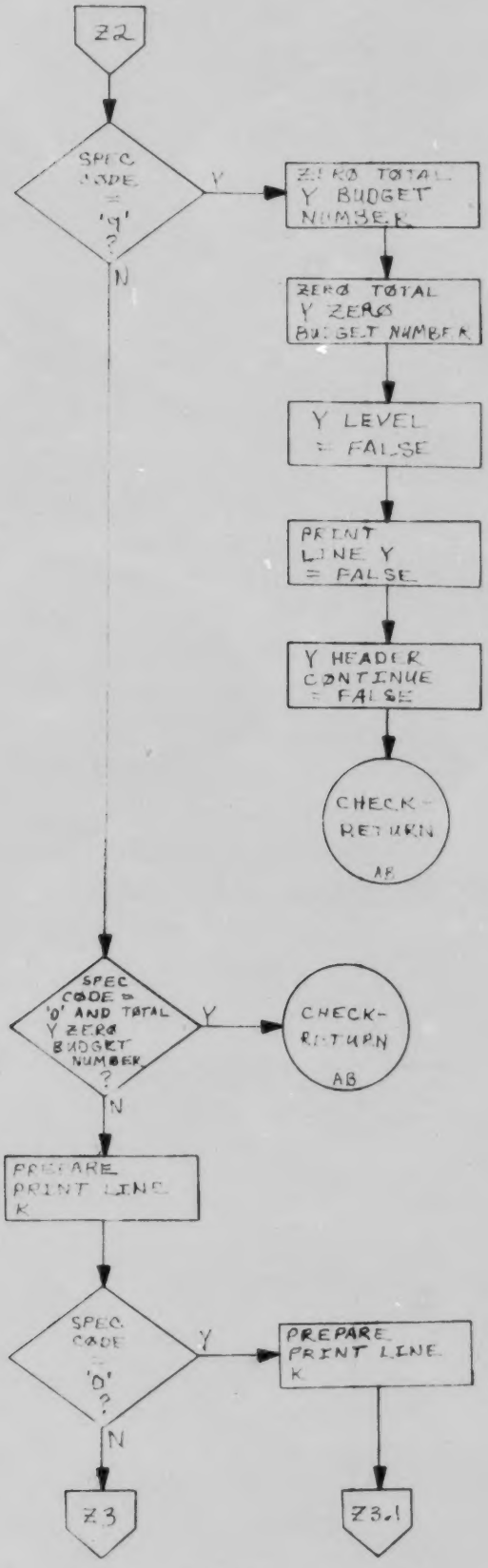

Y1
PROCESS-
F-REC
LINE
NUMBER
>
56
?
Y
N
PERFORM
UPDATE-
PAGE THRU
UPDATE-
PAGE-EXIT
AC
CHECK-
Z-
TOTAL
Z
LEVEL
=
FALSE
?
Y
N
CHECK-
Y-
TOTAL
Z
TOTAL
=
ZEROS
?
Y
N
Z LEVEL
= FALSE
PRINT
LINE Z
= FALSE
Y2
Y2.1

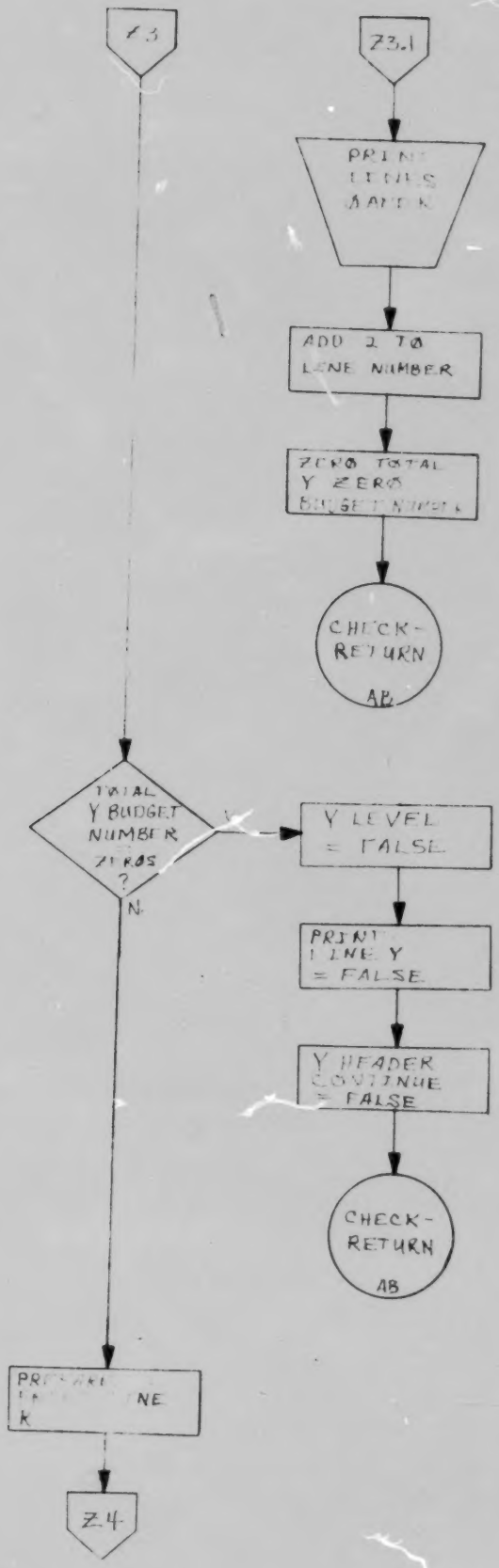

U2
PRINT LINES Ø AND L
ADD 2. TØ LINE NUMBER
DISPLAY SCHØØL REJECT LINEØ
ADD SCHØØL REJECT BUDGET NUMBER TØ REJECT DISTRICT BUDGET NUMBER
END SCHØØL FILE ?
Y
N
D62
DISTRICT
DIST-WRAP-UP
AD
U3

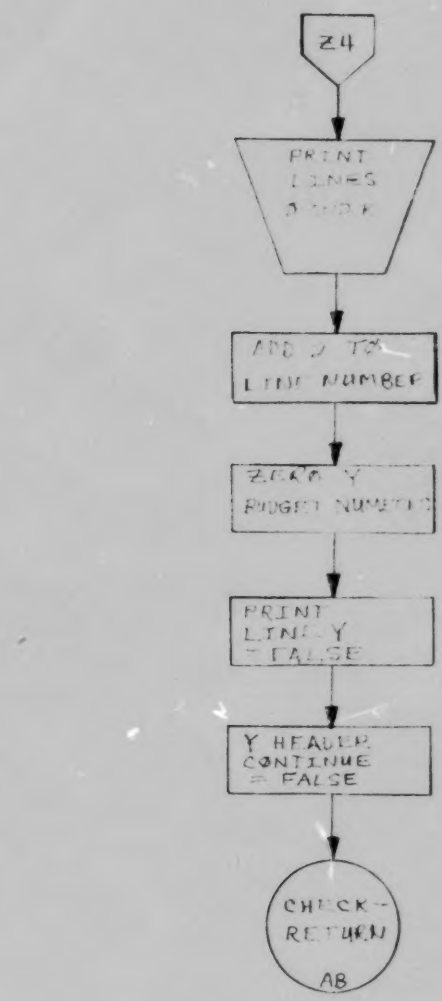

13
ADD 1 TO SCHOOL SEQUENCE NUMBER
SCHOOL SEQUENCE NUMBER > SAVE SCHOOLS NUMBER
Y
N
D33
DISTRICT WRAP UP = TRUE
DIST-WRAP-UP
AD
SCHOOL
ZERO SCHOOL NUMBER
PERFORM UPDATE-PAGE-PARA UNTIL UPDATE-PAGE-EXIT
AC
SCHOOL WRAP UP = FALSE
NEXT-FUNC-OBJ REC T

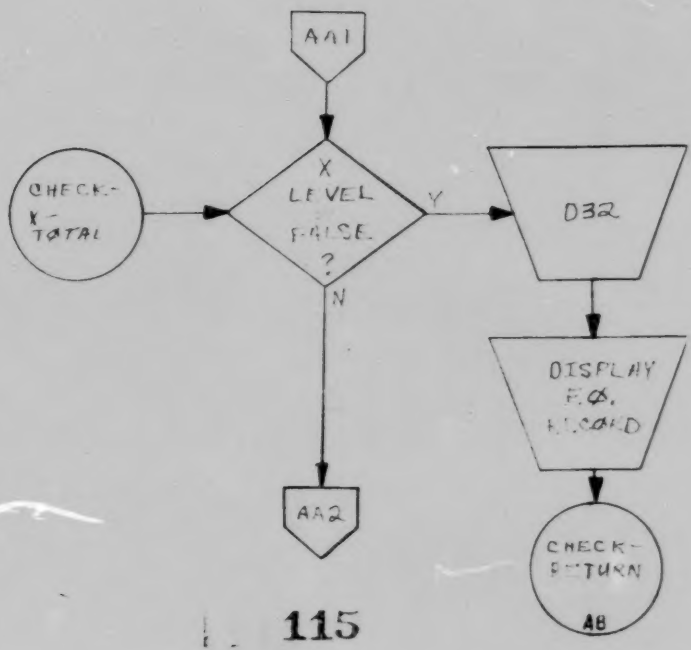

Y2
Y2.1
Z READER CONTINUE = FALSE
CHECK RETURN AB
PREPARE PRINT LINE K
PRINT LINES Ø AND K
ADD 2 TO LINE NUMBERS
RESET Z INIT Ø
CHECK RETURN AB

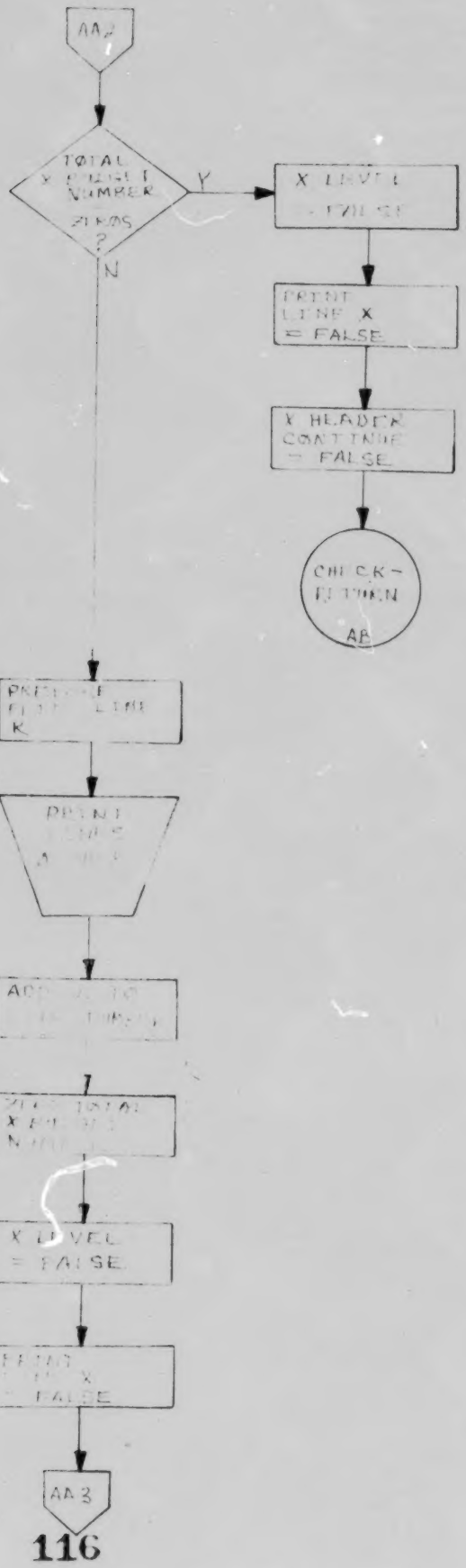

Z1
CHECK Y TOTAL
Y LEVEL ?
Y
N
CHECK Y TOTAL AA
Z2

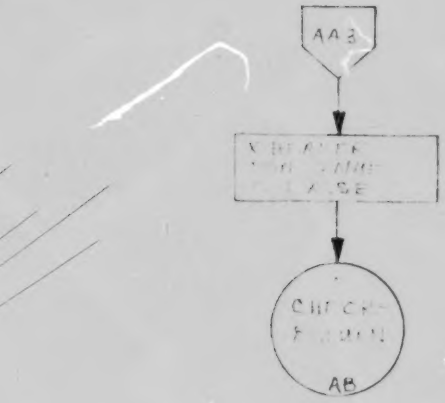

Z2
SPEC CODE = '4' ?
Y
N
ZERO TOTAL Y BUDGET NUMBER
ZERO TOTAL Y ZERO BUDGET NUMBER
Y LEVEL = FALSE
PRINT LINE Y = FALSE
Y HEADER CONTINUE = FALSE
CHECK-RETURN AB
SPEC CODE = '0' AND TOTAL Y ZERO BUDGET NUMBER ?
Y
N
CHECK-RETURN AB
PREPARE PRINT LINE K
SPEC CODE = '0' ?
Y
N
PREPARE PRINT LINE K
Z3
Z3.1

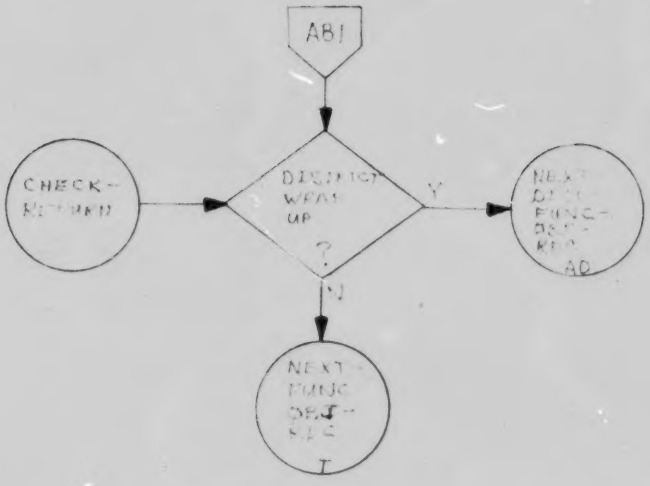

Z3
Z3.1
PRINT
LINES
MARK
ADD 2 TO
LINE NUMBER
ZERO TOTAL
Y ZERO
BUDGET NUMBER
CHECK-
RETURN
AB
TOTAL
Y BUDGET
NUMBER
ZEROS
?
Y
N
Y LEVEL
= FALSE
PRINT
LINE Y
= FALSE
Y HEADER
CONTINUE
= FALSE
CHECK-
RETURN
AB
NE
Z4

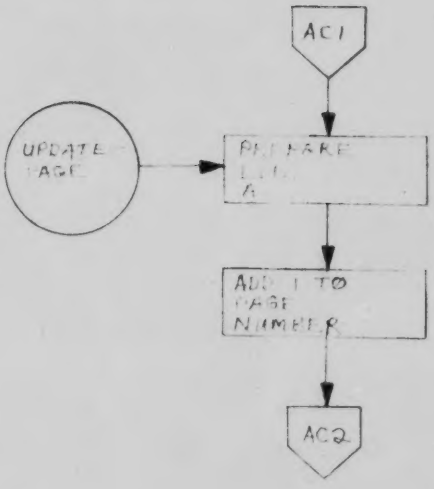

Z4
PRINT
LINES
ADD 1 TO
LINE NUMBER
ZERO Y
BUDGET NUMBER
PRINT
LINE Y
= FALSE
Y HEADER
CONTINUE
= FALSE
CHECK-
RETURN
AB

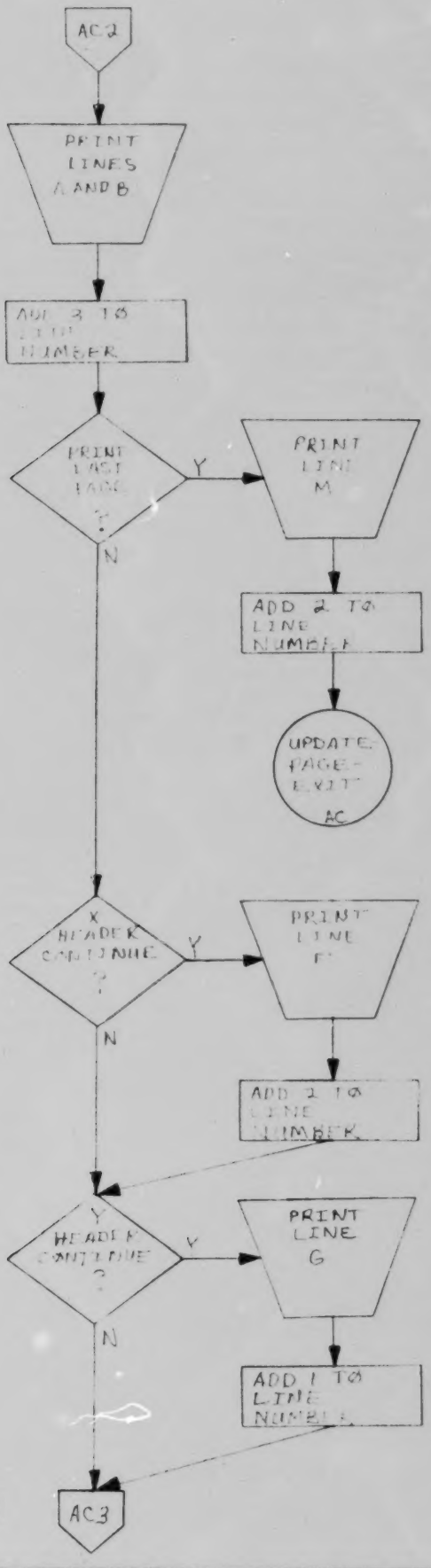

AA1
CHECK-
X-
TOTAL
X
LEVEL
FALSE
?
Y
N
D32
DISPLAY
E.O.
HEADING
AA2
CHECK-
RETURN
AB

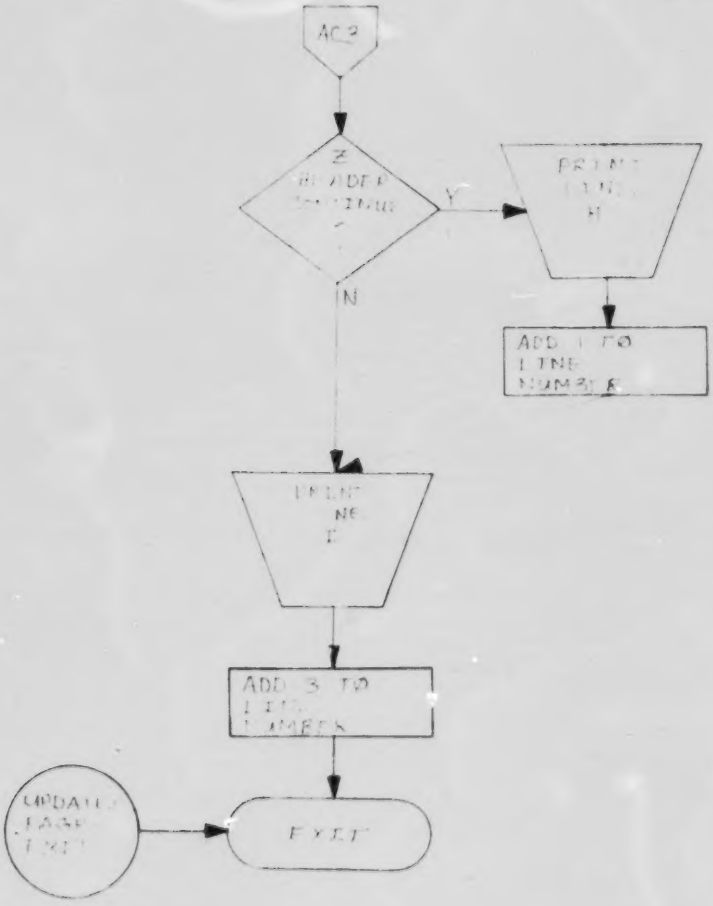

AA2
TOTAL
NUMBER
?
Y
N
X LIMIT
= FALSE
PRINT
LINE X
= FALSE
X HEADER
CONTINUE
= FALSE
CHECK-
RETURN
AB
PRINT
LINE
K
X LEVEL
= FALSE
PRINT
X
= FALSE
AA3

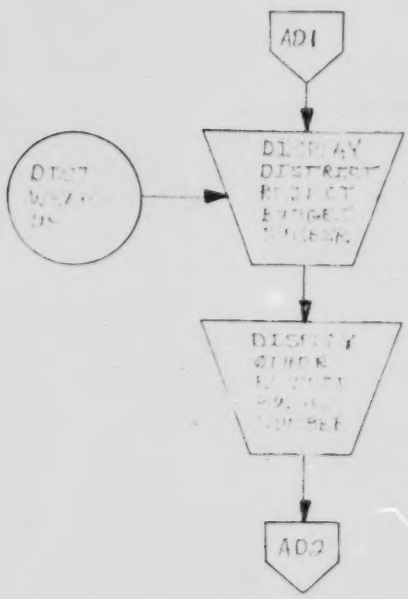

AA3
AB


AB1
CHECK-
DISPATCH
WRAP
UP
?
Y
N
AD
I

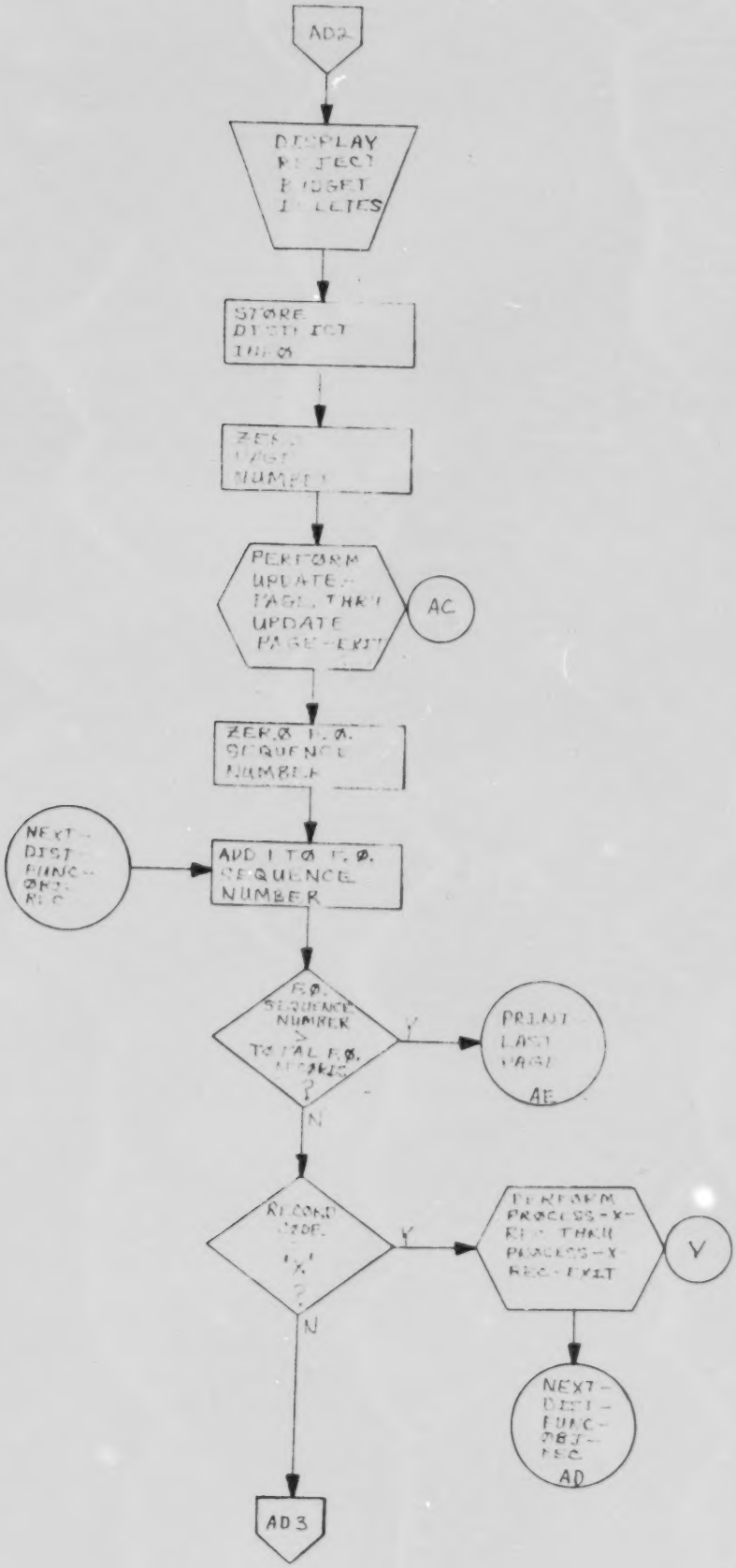

AC1
UPDATE-
PAGE
AC2

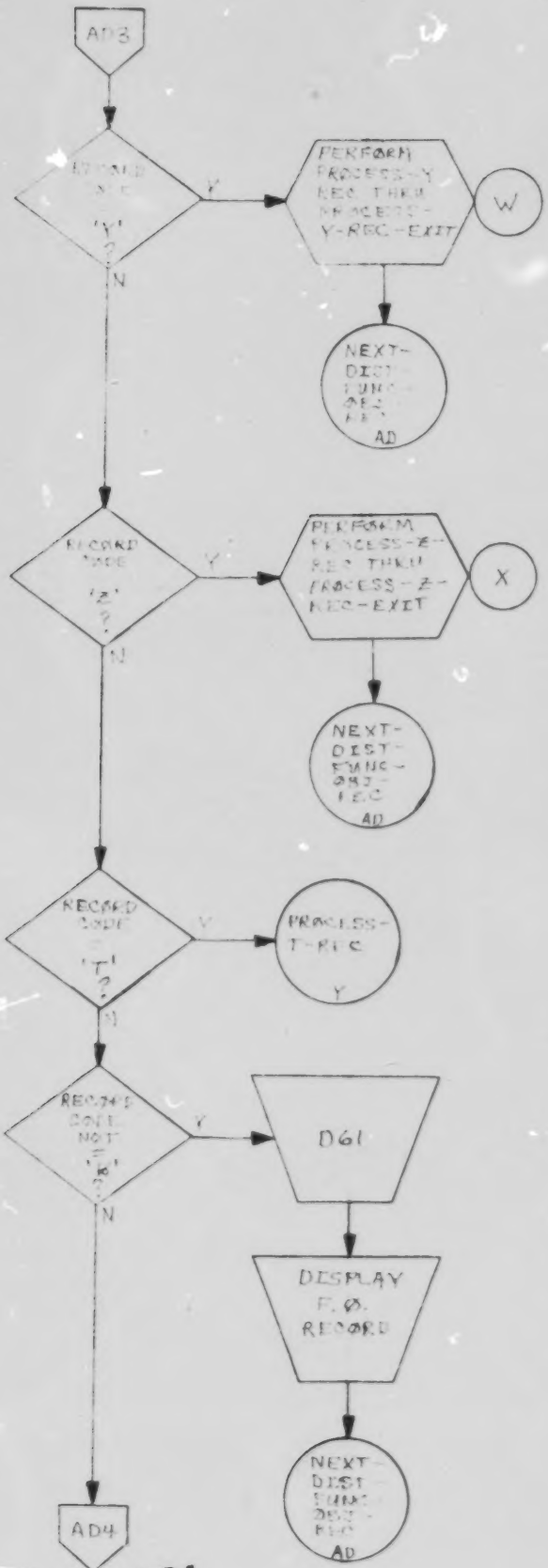

AC2
PRINT LINES A AND B
ADD 3 TO LINE NUMBER
PRINT LAST PAGE ?
Y
PRINT LINE M
N
ADD 2 TO LINE NUMBER
UPDATE PAGE - EXIT AC
X HEADER CONTINUE ?
Y
PRINT LINE F
N
ADD 2 TO LINE NUMBER
Y HEADER CONTINUE ?
Y
PRINT LINE G
N
ADD 1 TO LINE NUMBER
AC3

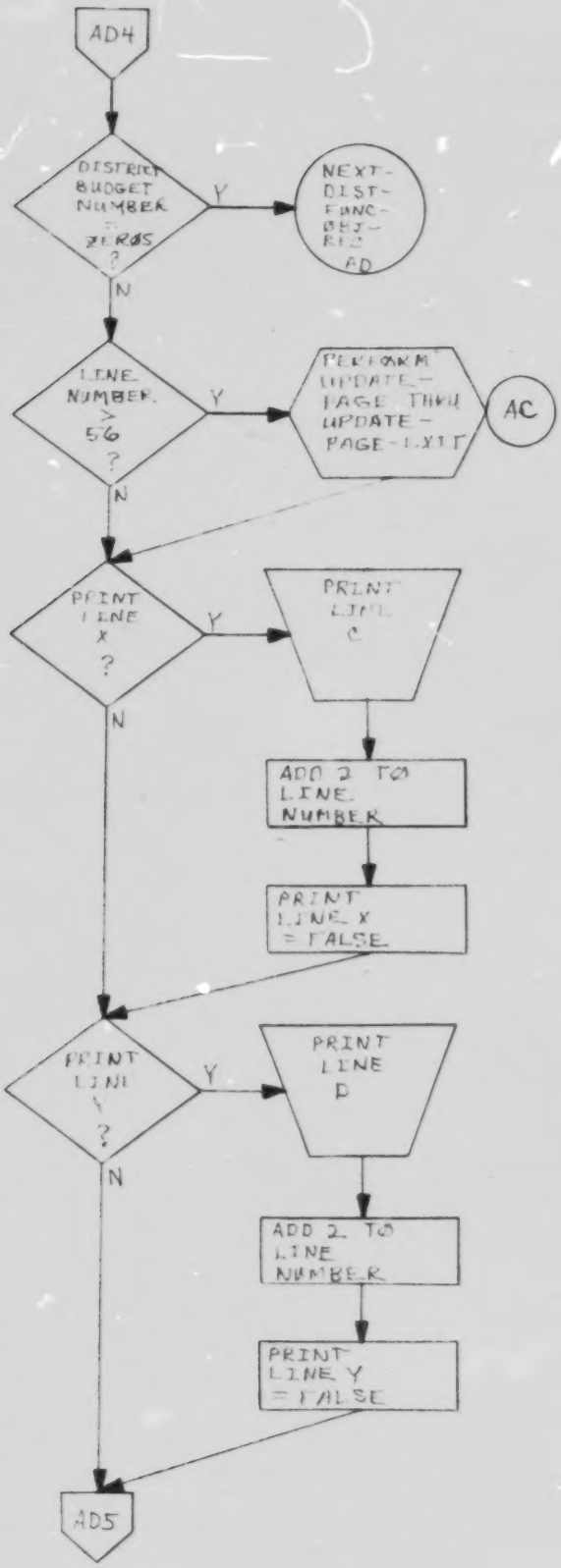


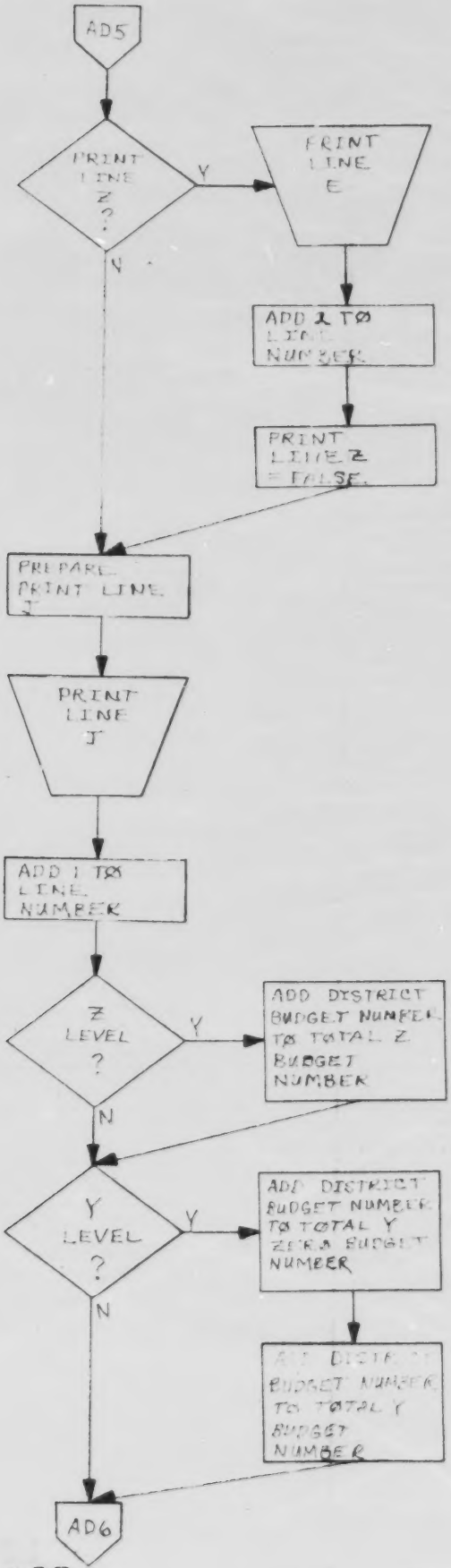


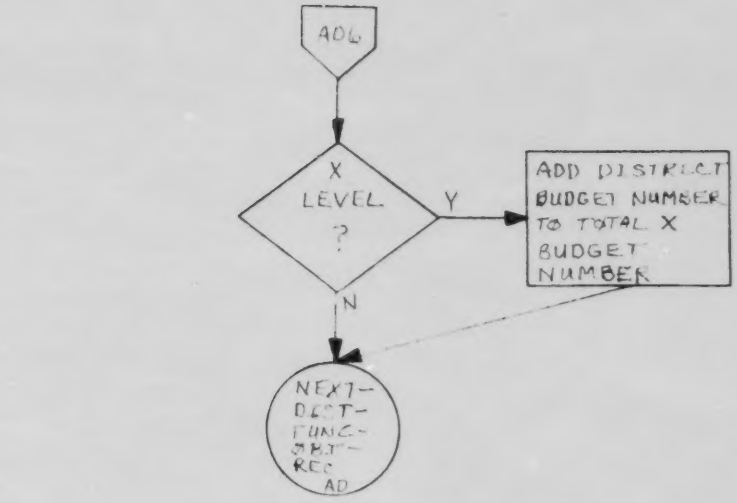
BEST COPY AVAILABLE

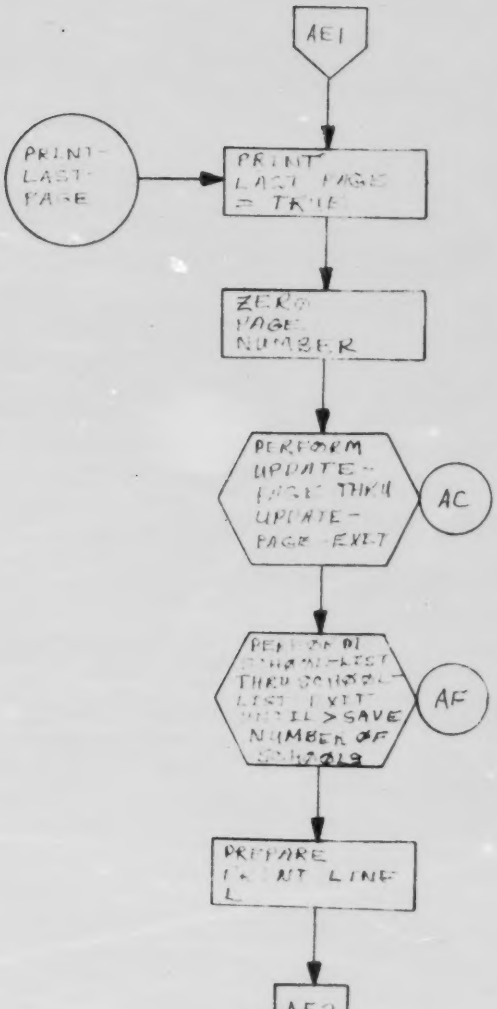

AD2
DISPLAY
PROJECT
BUDGET
FACILITIES
STORE
DISTRICT
INFO
ZERO
LAST
NUMBER
PERFORM
UPDATE-
PAGE-THRU
UPDATE
PAGE-EXIT
AC
ZERO I.O.
SEQUENCE
NUMBER
NEXT-
DIST-
FUNC-
OBJ-
REC
ADD 1 TO I.O.
SEQUENCE
NUMBER
I.O.
SEQUENCE
NUMBER
>
TOTAL I.O.
RECORDS
?
Y
PRINT
LAST
PAGE
AE
N
RECORD
CODE
'X'
?
Y
PERFORM
PROCESS-X-
REC-THRU
PROCESS-X-
REC-EXIT
Y
NEXT-
DIST-
FUNC-
OBJ-
REC
AD
N
AD3

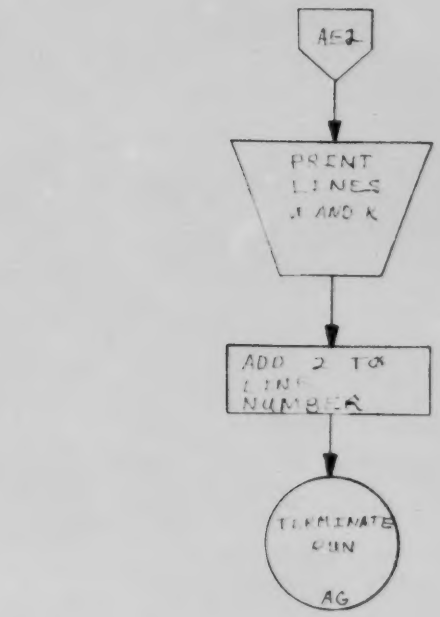

AD3
'Y'
Y
N
PERFORM
PROCESS-Y
REC THRU
PROCESS-
Y-REC-EXIT
W
NEXT-
AD
'Z'
Y
N
PERFORM
PROCESS-Z-
REC THRU
PROCESS-Z-
REC-EXIT
X
NEXT-
DIST-
SUMS-
REC
AD
'T'
Y
N
PROCESS-
T-REC
Y
NOT
'K'
Y
N
D61
DISPLAY
F. Ø.
RECORD
NEXT-
DIST-
AD
AD4

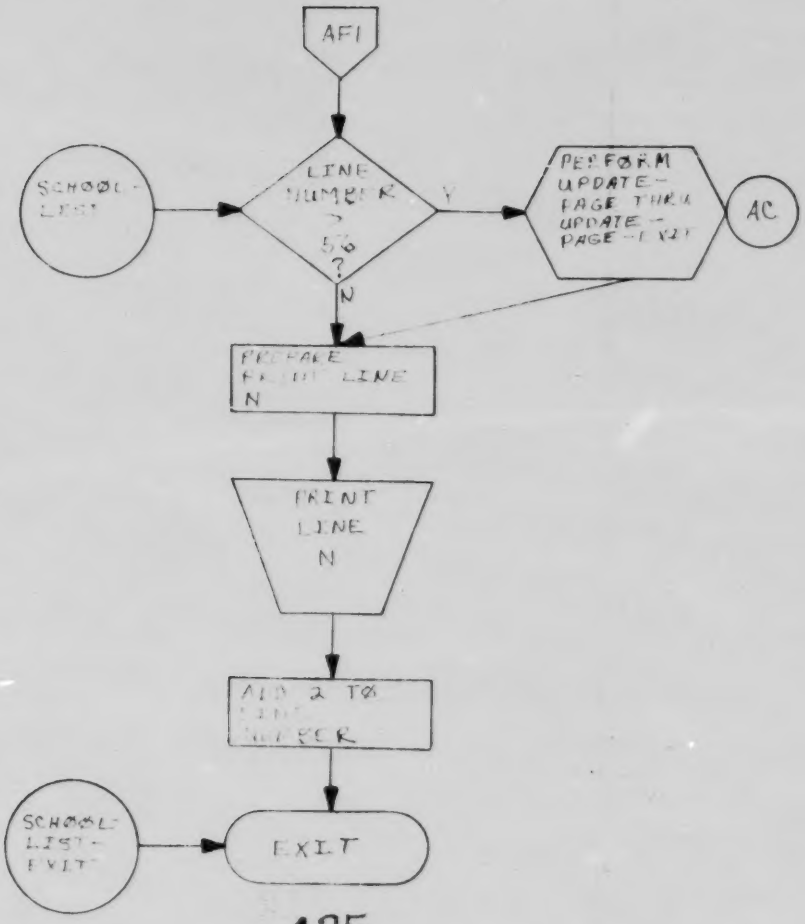

AD4
DISTRICT BUDGET NUMBER = ZEROS ?
Y
NEXT-DIST-FUNC-OBJ-REC AD
N
LINE NUMBER > 56 ?
Y
PERFORM UPDATE-PAGE THRU UPDATE-PAGE-EXIT
AC
N
PRINT LINE X ?
Y
PRINT LINE C
ADD 2 TO LINE NUMBER
PRINT LINE X = FALSE
N
PRINT LINE Y ?
Y
PRINT LINE D
ADD 2 TO LINE NUMBER
PRINT LINE Y = FALSE
N
AD5

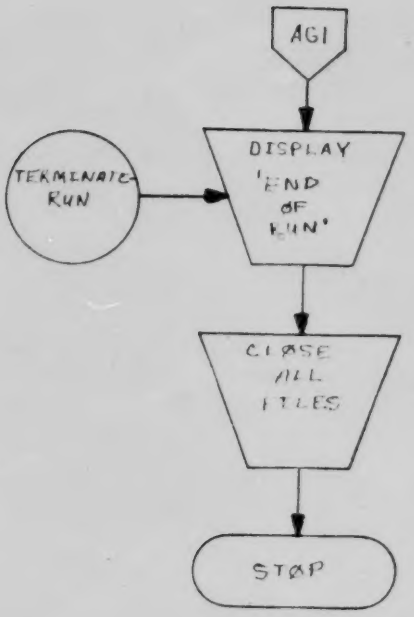

AD5
PRINT LINE Z ?
Y
N
PRINT LINE E
ADD 1 TØ LINE NUMBER
PRINT LINE Z = FALSE
PREPARE PRINT LINE J
PRINT LINE J
ADD 1 TØ LINE NUMBER
Z LEVEL ?
Y
N
ADD DISTRICT BUDGET NUMBER TØ TØTAL Z BUDGET NUMBER
Y LEVEL ?
Y
N
ADD DISTRICT BUDGET NUMBER TØ TØTAL Y ZERØ BUDGET NUMBER
ADD DISTRICT BUDGET NUMBER TØ TØTAL Y BUDGET NUMBER
AD6


AD6
X LEVEL ?
Y
N
ADD DISTRICT BUDGET NUMBER TO TOTAL X BUDGET NUMBER
NEXT-DIST-FUNC-SRT-REC
AD


AE1
PRINT-LAST-PAGE
PRINT LAST PAGE = TRUE
ZERO PAGE NUMBER
PERFORM UPDATE-PAGE THRU UPDATE-PAGE-EXIT
AC
AF
PREPARE
AE2


AE2
PRINT LINES J AND K
ADD 2 TØ LINE NUMBER
TERMINATE RUN
AG


AF1
SCHØØL-LIST
LINE NUMBER > 5Ø ?
Y
N
PERFØRM UPDATE-PAGE THRU UPDATE-PAGE-EXIT
AC
PREPARE PRINT LINE N
PRINT LINE N
ADD 2 TØ LINE NUMBER
SCHØØL-LIST-EXIT
EXIT


AGI
DISPLAY
'END
OF
RUN'
TERMINATE
RUN
CLOSE
ALL
FILES
STOP

Detailed Comparative Budget (SCH21)

The purpose of this program is to process the final program oriented budget file of a school district using the line item code within the record to accumulate dollar totals for each line item code and it's division.

Since the line item code is carried within the file data for transitional purpose and its corresponding title is not, the program tables internally a data deck, matching line item name associated with its respective code. The previous year's budget dollars and expenditure dollars are punched on each line item card.

There are TOTAL cards interspersed within the data deck to control the printing of group or division totals. Heading level cards placed at various positions after TOTAL cards control the changes in heading data.

The program is placed in sequence second to a utility sort that sequences the program oriented budget file in this line item code ascending sequence as shown on the job stream illustration attached.

NOTE: This is an accessory program assisting in the transition from traditional budgeting methods to program oriented budgeting.

SCH21 Control Cards

Header Card H-1 Format
Control Cards X, Y, Z, title Control cards
Total Cards
Forced Total Cards
Drop Total Cards
F.O. Title Cards

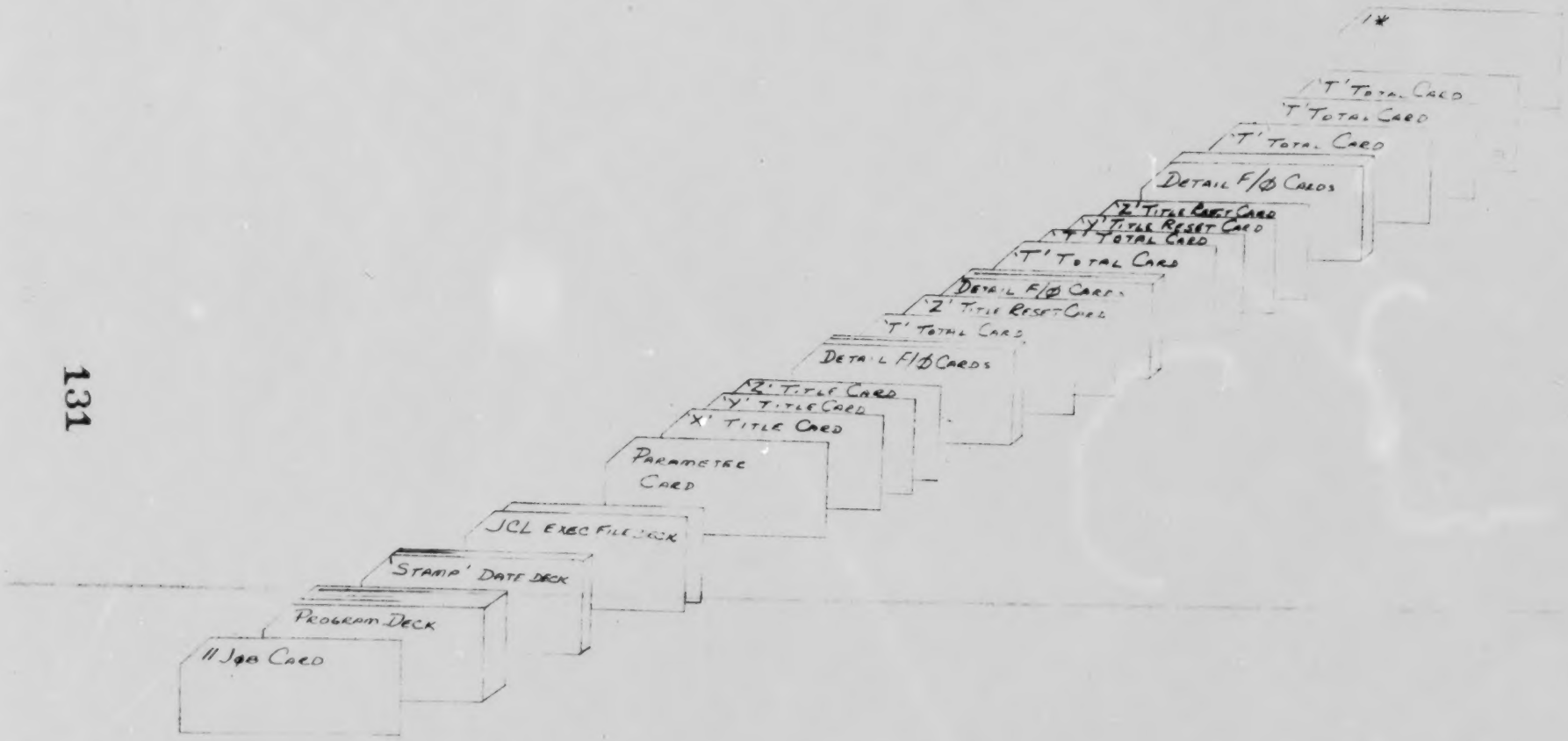
SCHEDULE 21

ERROR MESSAGE LOG

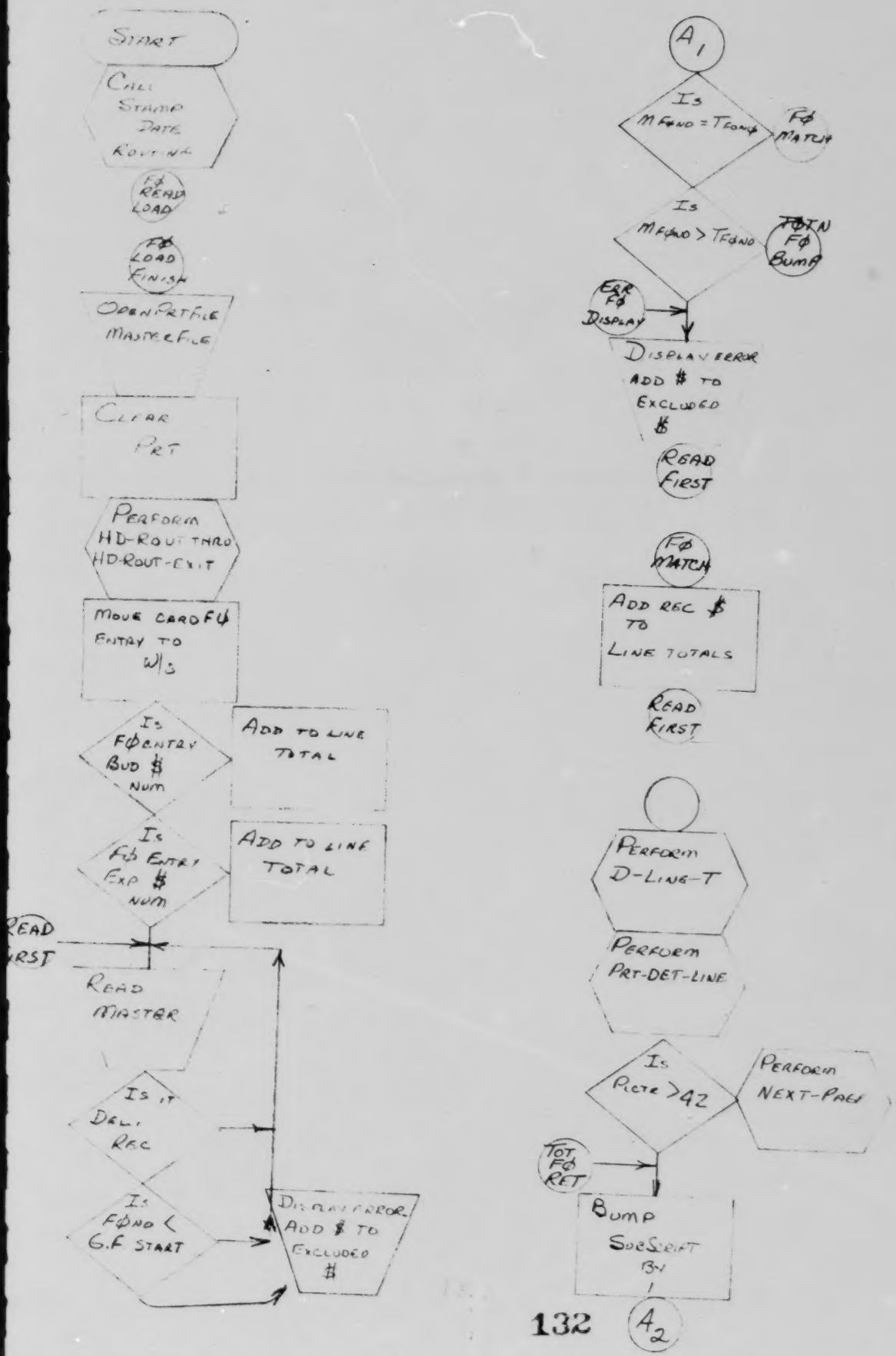
MESSAGE	REASON
FØ-CØDE ØN FILE NØT IN TABLE	The function/object number listed has an entry on file but there is no title card in deck for entry.
FØ-TABLE ØVERLØADED	The program has an initial table for 450 FØ card entries.
REPØRT TITLE FUND NØT AVAIL	During the first initial step of the program no report title card 'X' was in deck.
REPØRT PARAG NØT AVAIL	During the second initial step of the program no intermediate title card 'Y' was in deck.
REPØRT DIV NØT AVAIL	During the third initial step of the program no paragraph card 'Z' was in deck.
REPØRT FIRST FØENTRY NØT LINE-ENTRY	AFTER SETTING UP THE INITIAL REPORT HEADING the program is looking for a detail F/Ø title image card. Cards not in sequence.
EXCESS CØNTRØL CARDS AT START	The program found the proper entry 'X', 'Y', and 'Z' cards but the next card should be a detail entry. The program found a 'X', 'Y', 'Z', or 'T' card.
CØNTRØL CARDS ØUT ØF SYNC	The program continues after finding the first 'T' card is looking for a 'Z' card that will reset a paragraph title or another 'T' card that will total out a series of paragraph. It couldn't find either.
CØNTRØL CARDS ØUT ØF SYNCA	The program at this point has found the second 'T' card and is looking for a 'Y' title reset card or a third 'T' card that forces out a fund total. It found neither.

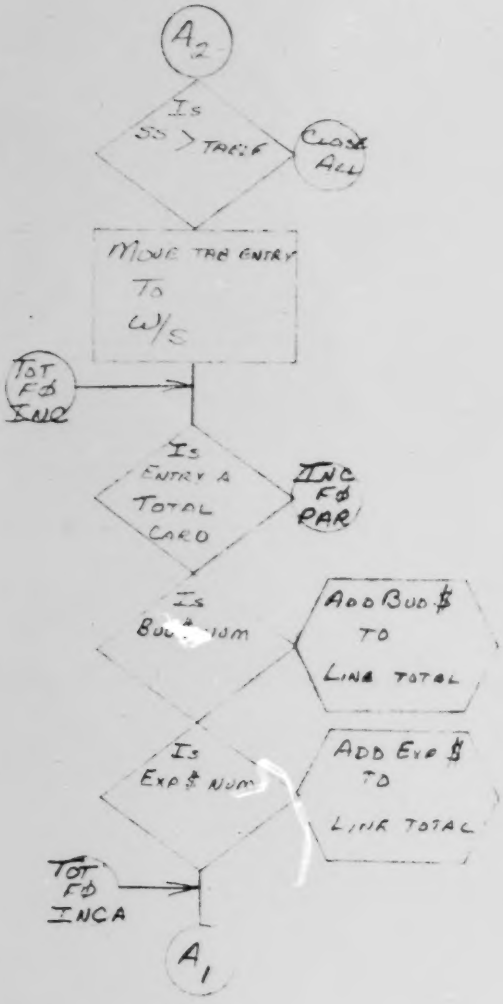
CØNTRØL CARDS ØUT ØF SYNCB	The program at this point has found a invalid card.
LØW ØR NNUM FØCØDE	The function-object number on file is low to 1000000 or is non-numeric.
CØNTRØL CARDS ØUT ØF SYNCS	During processing a third 'T' card read and processed. The program is now looking for an 'X' card, not found.
CØNTRØL CARDS ØUT ØF SYNCT	Same as message above except an X card was read and processed and now the program is looking for a 'Y' card, not found.
CØNTRØL CARDS ØUT ØF SYNCU	Same as message above except an 'X' and 'Y' card were read and processed in correct sequence and now program is looking for a 'Z' card, not found.
CØNTRØL CARDS ØUT ØF SYNCC	Program at this point is looking for a detail function object card or a 'Z' card, neither found.
NØ REPØRT IDENTIFIER	There was no header or parameter card in deck.
FØ EXCEEDS 450	Program originally set up for capacity of table of 450 F/Ø entries. Increase.
FØ TABLE ØVERLØADED	This message appears each time another F/Ø card is read after original limit is reached to give Operations some idea to what level to increase table size.
EXCLUDED DØLLARS	This is the dollar total represented in all error F/Ø codes on file. By adding this total to dollar total in current budget column represents a check figure to compare with detail budget printout.

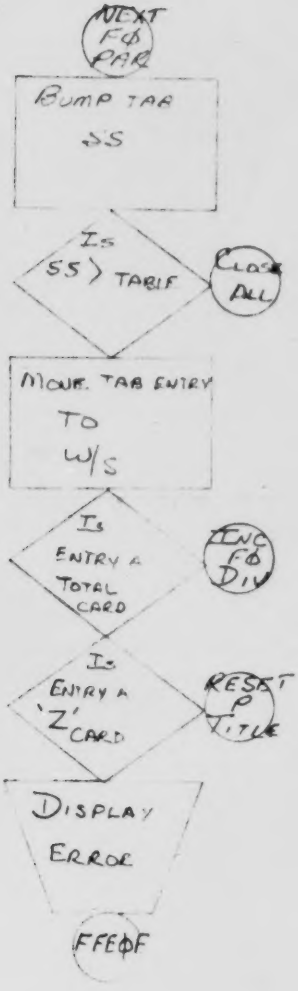
JOB STREAM - SCH21

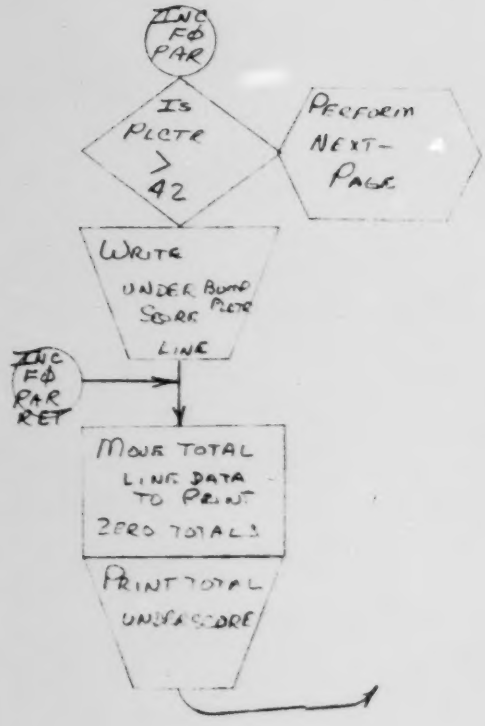


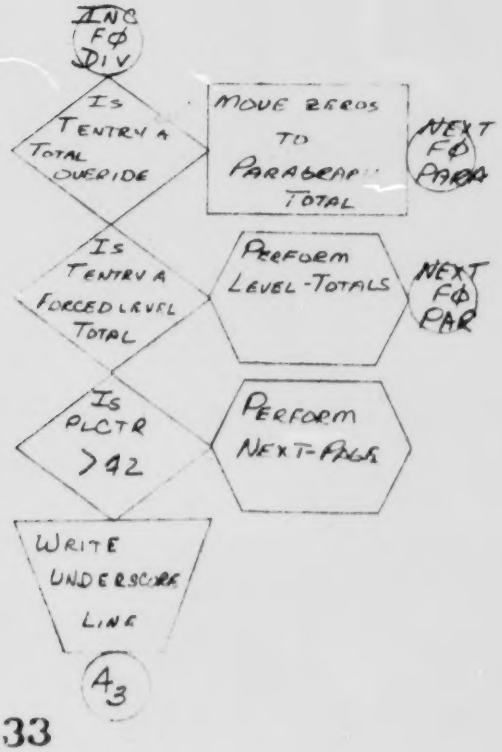
JLHC1


START
CALL STAMP DATE ROUTINE
F# READY LOAD
F# LOAD FINISH
OPEN PRTFILE MASTERFILE
CLEAR PRT
PERFORM HD-ROUT THRU HD-ROUT-EXIT
MOVE CARD F# ENTRY TO W/S
IS F# ENTRY BUD # NUM
ADD TO LINE TOTAL
IS F# ENTRY EXP # NUM
ADD TO LINE TOTAL
READ FIRST
READ MASTER
IS IT DEL. REC
IS F#NO < G.F START
DISPLAY ERROR ADD # TO EXCLUDED #
A1
IS MF#NO = TF#NO
F# MATCH
IS MF#NO > TF#NO
TF#N F# BUMP
ERR F# DISPLAY
DISPLAY ERROR ADD # TO EXCLUDED #
READ FIRST
F# MATCH
ADD REC # TO LINE TOTALS
READ FIRST
PERFORM D-LINE-T
PERFORM PRT-DET-LINE
IS PICTR > 42
PERFORM NEXT-PAGE
TOT F# RET
BUMP SUBSCRIPT BY 1
A2


A2
Is SS > TAB-E-6
CLOSE ALL
MOVE TAB ENTRY TO W/S
TOT FØ INC
Is ENTRY A TOTAL CARD
INC FØ PAR
Is Bud $ Num
ADD BUD $ TO LINE TOTAL
Is Exp $ Num
ADD EXP $ TO LINE TOTAL
TOT FØ INCA
A1


NEXT FØ PAR
BUMP TAB SS
Is SS > TARIF
CLOSE ALL
MOVE TAB ENTRY TO W/S
Is ENTRY A TOTAL CARD
INC FØ DIV
Is ENTRY A 'Z' CARD
RESET P TITLE
DISPLAY ERROR
FFEØF


INC FØ PAR
Is PLCTR > 42
PERFORM NEXT-PAGE
WRITE UNDER BUMP PLCTR SCORE LINE
INC FØ PAR RET
MOVE TOTAL LINE DATA TO PRINT ZERO TOTALS
PRINT TOTAL UNDERSCORE


INC FØ DIV
Is ENTRY A TOTAL OVERIDE
MOVE ZEROS TO PARAGRAPH TOTAL
NEXT FØ PARA
Is ENTRY A FORCED LEVEL TOTAL
PERFORM LEVEL-TOTALS
NEXT FØ PAR
Is PLCTR > 42
PERFORM NEXT-PAGE
WRITE UNDERSCORE LINE
A3

A3
MOVE TOT DATA TO PRINT
ZERO TOTALS
WRITE TOTAL + UNDERSCORE
ADD 3 TO PCNTR
NEXT FD PARA
BUMP TABLE S/S
IS S/S > TABLE
CLOSE ALL
MOVE TAB ENTRY TO W/S
IS ENTRY A TOTAL CARD
INC FD FD
IS ENTRY A Y CARD
RESET D TITLE
DISPLAY ERROR
NEXT PAR EOJ
FFEOF
RESET P TITLE
TURN INT PRINT SWITCH
MOVE TITLE DATA TO PRINT
IS PCNTR > 42
PERFORM NEXT-PAGE
BUMP TAB SS BY 1
IS SS > TABLE
CLOSE ALL
MOVE TAB ENTRY TO W/S
IS ENTRY NOT = T, X, Y, Z
RESET P ADD
DISPLAY ERROR
FFEOF
RESET P ADD
IS IN INT PRINT SW = 1
PERFORM WRITE I-HD
IS BUD, EXP # NUM
ADD BUD # EXP # TO LINE TOTALS
RESET P ADDA
A1

PERFORM SET-REP-FUND
BUMP SS BY 1
IS SS > TAB
CLOSE ALL
MOVE ENTRY TO W/S
IS ENTRY NOT = Y
DISPLAY ERROR
FFEOF
PERFORM SET-REP-PARA
BUMP SS BY 1
IS SS > TAB
CLOSE ALL
MOVE ENTRY TO W/S
IS ENTRY NOT = Z
DISPLAY ERROR
FFEOF
PERFORM SET-REP-DIVA
BUMP SS BY
IS PLCTR > 44
PERFORM NEXT-PAGE
WRITE UNDERSCORE
MOVE TOTAL ID TO PRINT
MOVE TOTALS TO PRINT
ZEROS TOTALS
WRITE TOTAL LINE
BUMP PLCTR 3
WRITE UNDERSCORE
NEXT FD PARB
BUMP SS BY 1
IS SS > TABLE
CLOSE ALL
MOVE TAB ENTRY TO W/S
NEXT FD PARC
IS ENTRY NOT = X
DISPLAY ERROR
FFEOF

A5
Is SS > TAB
CLOSE ALL
MOVE ENTRY TO W/S
Is ENTRY A FD CARD
RESET AROUND
DISPLAY ERROR
CLOSE ALL
RESET D TITLE
MOVE 1 TO INT PAT SW
MOVE TITLE DATA TO PRINT
BUMP SS BY 1
Is SS > TAB
CLOSE ALL
MOVE ENTRY TO W/S
Is ENTRY NOT= T, X, V, Z
RESET D ADD
Is ENTRY A Z
RESET D TITLE
DISPLAY ERROR
FFEOF
RESET D ADD
Is PRINT SW = 1
PERFORM WRITE-IMD
Is BUD # NUM
ADD BUD # TO TOTAL
Is EXP # NUM
ADD EXP # TO TOTAL
RESET D ADDA
A1

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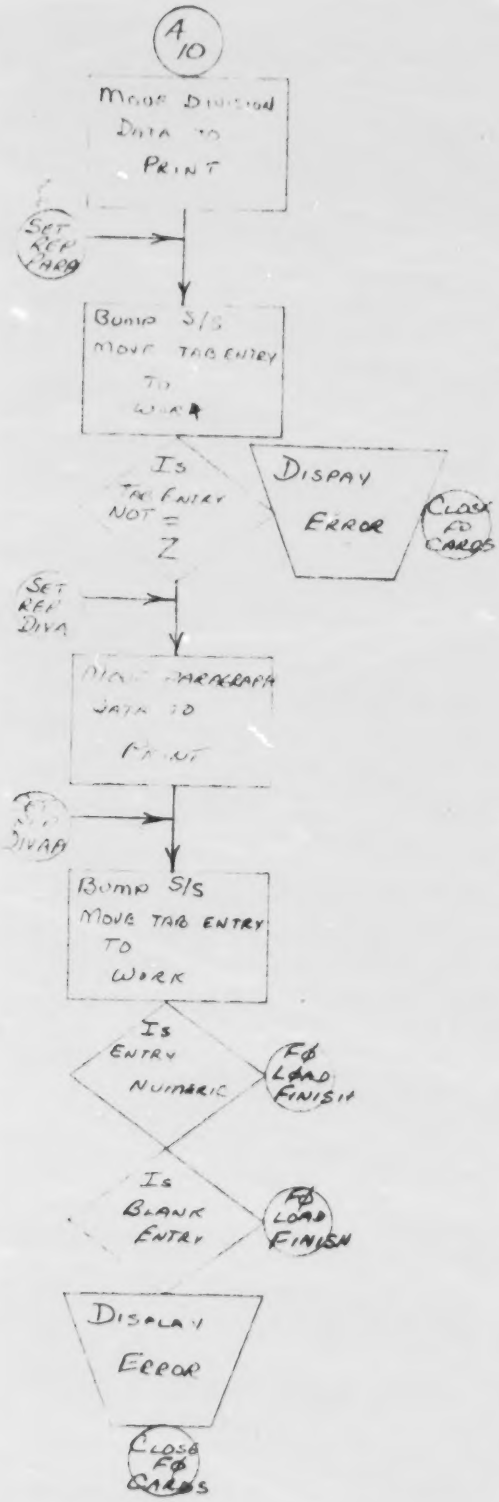
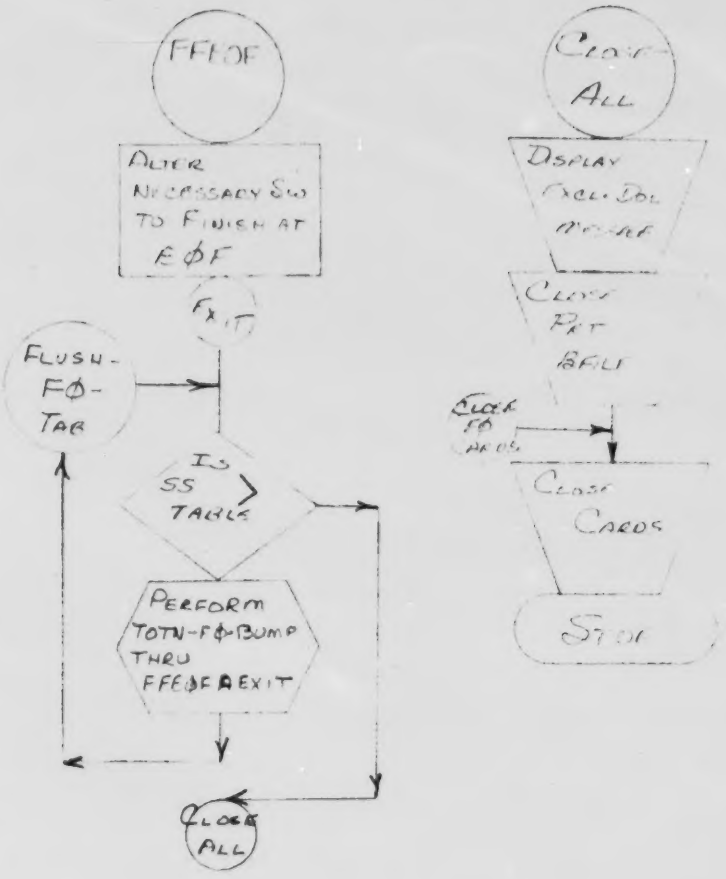
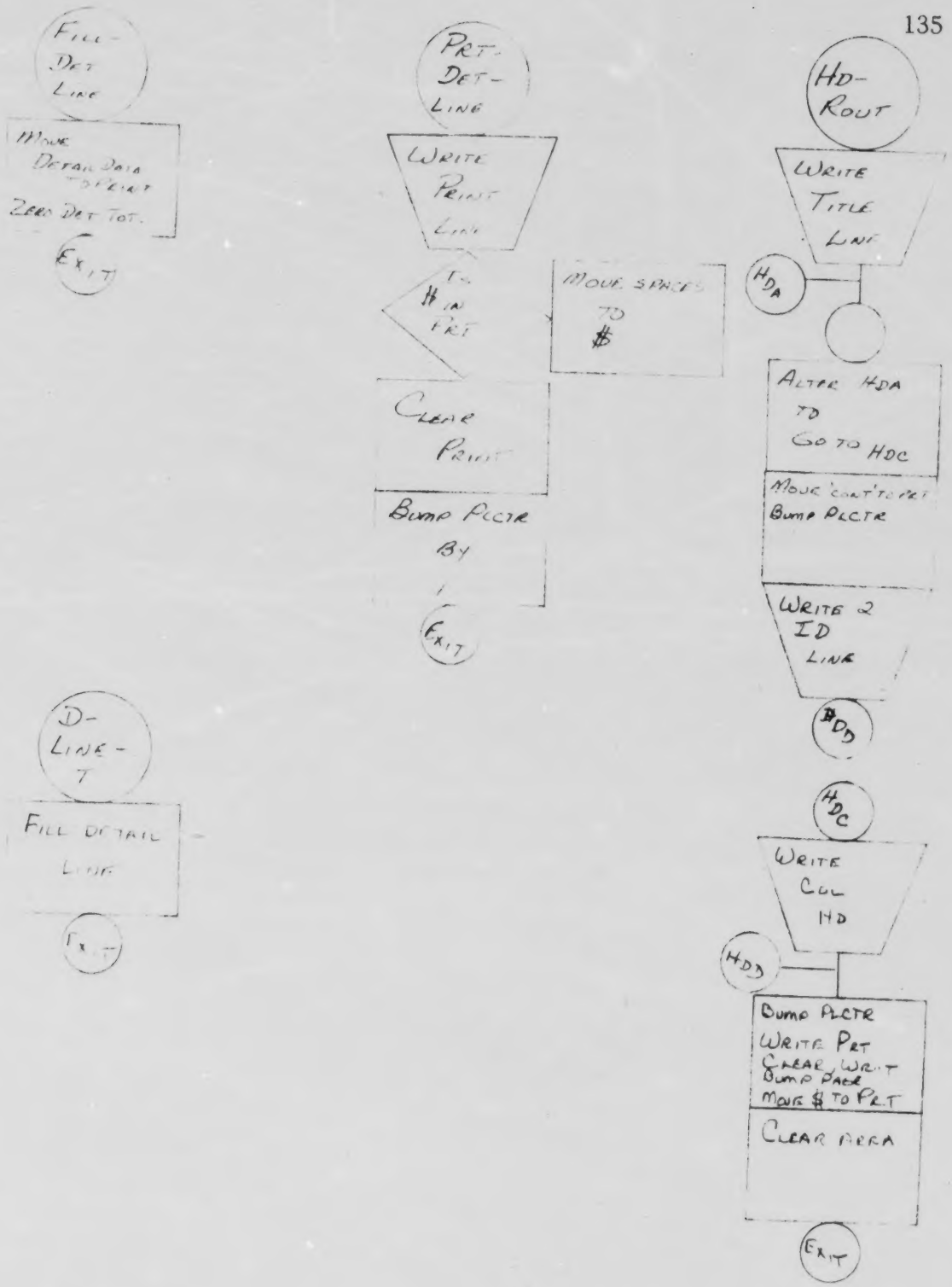
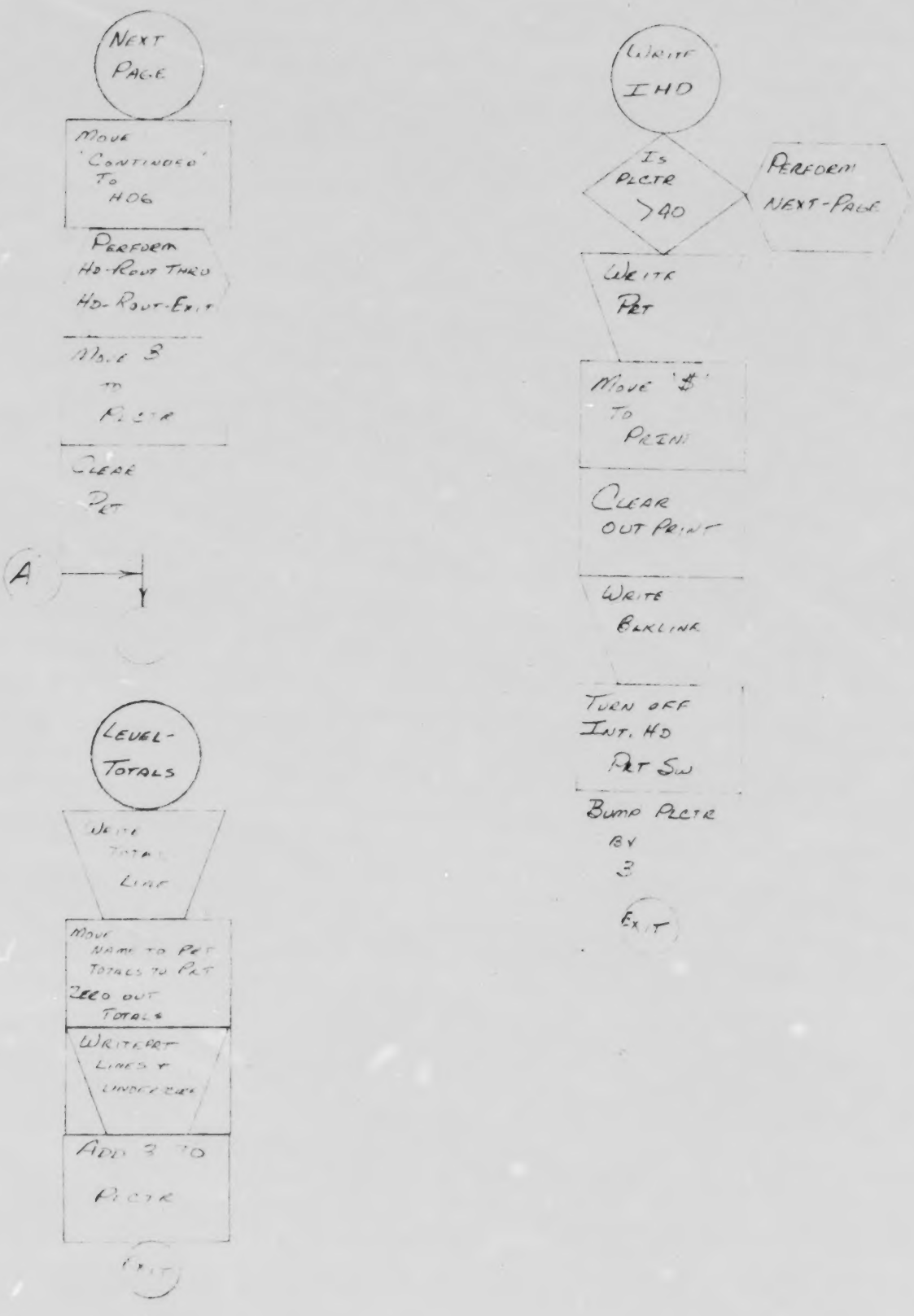

A
10
MOVE DIVISION
DATA TO
PRINT
SET
REP
HDRG
BUMP S/S
MOVE TAB ENTRY
TO
WORK
IS
TAB ENTRY
NOT =
Z
DISPAY
ERROR
CLOSE
FD
CARDS
SET
REP
DIVA
MOVE PARAGRAPH
DATA TO
PRINT
BUMP S/S
MOVE TAB ENTRY
TO
WORK
IS
ENTRY
NUMERIC
FD
LOAD
FINISH
IS
BLANK
ENTRY
FD
LOAD
FINISH
DISPLAY
ERROR
CLOSE
FD
CARDS


FFEOF
ALTER NECESSARY SW TO FINISH AT EOF
EXIT
FLUSH-FO-TAB
IS SS > TABLE
PERFORM TOTN-FO-BUMP THRU FFEOF & EXIT
CLOSE ALL
CLOSE ALL
DISPLAY
CLOSE PRT & FILE
CLOSE CARDS
STOP

FILL-DET LINE
MOVE DETAIL DATA TO PRINT
ZERO DET TOT.
EXIT
PRT-DET-LINE
WRITE PRINT LINE
T. # IN PRT
MOVE SPACES TO #
CLEAR PRINT
BUMP PLCTR BY 1
EXIT
HD-ROUT
WRITE TITLE LINE
HDA
ALTER HDA TO GO TO HDC
MOVE 'CONT'D' TO PRT
BUMP PLCTR
WRITE 2 ID LINE
HDD
HDC
WRITE COL HD
HDD
BUMP PLCTR
WRITE PRT
CLEAR, WRIT
BUMP PAGE
MOVE # TO PRT
CLEAR PRCA
EXIT
D-LINE-T
FILL DETAIL LINE
EXIT

NEXT PAGE
MOVE 'CONTINUED' TO HDG
PERFORM HD-ROUT THRU HD-ROUT-EXIT
MOVE 5 TO PLCTR
CLEAR PRT
A
LEVEL-TOTALS
WRITE TOTAL LINE
MOVE NAME TO PRT
TOTALS TO PRT
ZERO OUT TOTALS
WRITE PRT LINES + UNDERLINE
ADD 3 TO PLCTR
EXIT
WRITE IHD
IS PLCTR > 40
PERFORM NEXT-PAGE
WRITE PRT
MOVE '$' TO PRINT
CLEAR OUT PRINT
WRITE BLKLINE
TURN OFF INT. HD PRT SW
BUMP PLCTR BY 3
EXIT


FILL DET LINE
MOVE DETAIL DATA TO PRINT
ZERO DET TOT.
EXIT
PRT DET LINE
WRITE PRINT LINE
T. # IN PRT
MOVE SPACES TO #
CLEAR PRINT
BUMP PLCTR BY 1
EXIT
HD-ROUT
WRITE TITLE LINE
HDA
ALTER HDA TO GO TO HDC
MOVE CONT TO PRT
BUMP PLCTR
WRITE 2 ID LINE
HDD
HDC
WRITE COL HD
HDD
BUMP PLCTR
WRITE PRT
CLEAR, WRIT
BUMP PAGE
MOVE # TO PRT
CLEAR AREA
EXIT
D-LINE-7
FILL DETAIL LINE
EXIT


NEXT PAGE
MOVE 'CONTINUED' TO HD6
PERFORM HD-ROUT THRU HD-ROUT-EXIT
MOVE 3 TO PLCTR
CLEAR PRT
A
LEVEL-TOTALS
WRITE TOTAL LINE
MOVE NAME TO PRT TOTALS TO PRT ZERO OUT TOTALS
WRITE PRT LINES + UNDERLINE
ADD 3 TO PLCTR
EXIT
WRITE IHD
IS PLCTR >40
PERFORM NEXT-PAGE
WRITE PRT
MOVE '$' TO PRINT
CLEAR OUT PRINT
WRITE BLKLINE
TURN OFF INT. HD PRT SW
BUMP PLCTR BY 3
EXIT

MIS FINANCE
DETAILED BUDGET ANALYSIS (SCHLST)

The purpose of this program is to produce a detailed analysis of a single line item code or group of associated line item codes.

The three analyses are:

Detailed analysis of buildings, grounds and service systems maintenance.

Detailed analysis of repairs and replacement of instructional equipment.

Detailed analysis of capital outlay.

An example of print format is attached showings the initial capability of the program. With minor modifications other such analysis groups might also be generated.

A deck of line item code identifiers are used as input to control what group of codes to print. The input deck also contains school identifiers and program area (department) identifiers.

This program is placed in sequence, second to a utility sort that sequences the program oriented budget file in the department within school within line item code sequence.

NOTE: This is an accessory program assisting in the transition from traditional budgeting methods to program oriental budgeting.

SCHLST Control Cards

Header Card H-1 Format
School I.D. Card Format
Program Area Card Format
F.O. Title Card Format

CONTROL CARDS

Parameter Card Identified by seven zeros in columns 1-7

Column		Description
8-32		District Name
33-49		Budget Years
		Example: 1␣9␣7␣2␣␣␣1␣9␣7␣3
50-67		Budget From/To Years
	50-58	From Years Example 1971␣1972
	59-67	To Example 1972␣1973
68-80		Blank

'X' Title Control Card Identified by 'x' punched in column 61

Column		Description
1-7		Starting F/Ø code number
		Example: 10000.00
8-37		Blank
38-47		From number/To number
	38-42	From number Ex: 10000
	43-47	To number Ex: 79999
48-60		Blank
61		Control card designator
62-68		Control Card Title Ex: GENERAL␣FUND

'Y' Title Control Card Same as 'X' except 'X' in column 61

'Z' Title Control Card Same as 'X' except 'X' in column 61

Note: The purpose of the title control cards is to reset any one of three titles on the listing. The 'X' control card resets the major heading shown on the upper left corner on first page. This title changes to ' continued' on second and succeeding pages and is only changed by a new 'X' card when read. A new 'X' card causes the report to skip to channel one on print-out.

The 'Y' title control card sets the intermediate heading in the middle section of the title print line. This title is only reset when a 'Y' card is read during processing.

The 'Z' title control card sets the lowest level of the title and is sometimes referred to within the source program listing as paragraph title. This level of title is only reset when a 'Z' card is read during processing.

'T' Total Control cards

Within the coding logic of the program, allowances have been made for three types of 'T' cards.

Normal 'T' card format.

Column	Description
1-7	Starting F/Ø code of range
8-37	Blank
38-47	From number/To number
38-42	From number Ex: 10000
43-47	To number Ex: 10999
48-60	Blank
61	Control Card designator 'T'
62-80	Control card Title Ex: Administration

Forced Total 'T' card format.

Same as in normal 'T' card except To number 43-47 is punched 00000. This control card forces out a total not related to intermediate but one between paragraph and intermediate.

Bypass Total 'T' card format.

Same as in normal 'T' card format except 'To number' columns 43-47 are punched 00009. This control card does away with the intermediate total. Example would be 'Dept. Service' Title in Iowa's Uniform Financial Accounting Handbook suggested print format where the paragraph name and total are the same as intermediate name and total. This prevents two total lines from printing when they are identical.

Function-Object Card Identified by column 61 being numeric or blank.

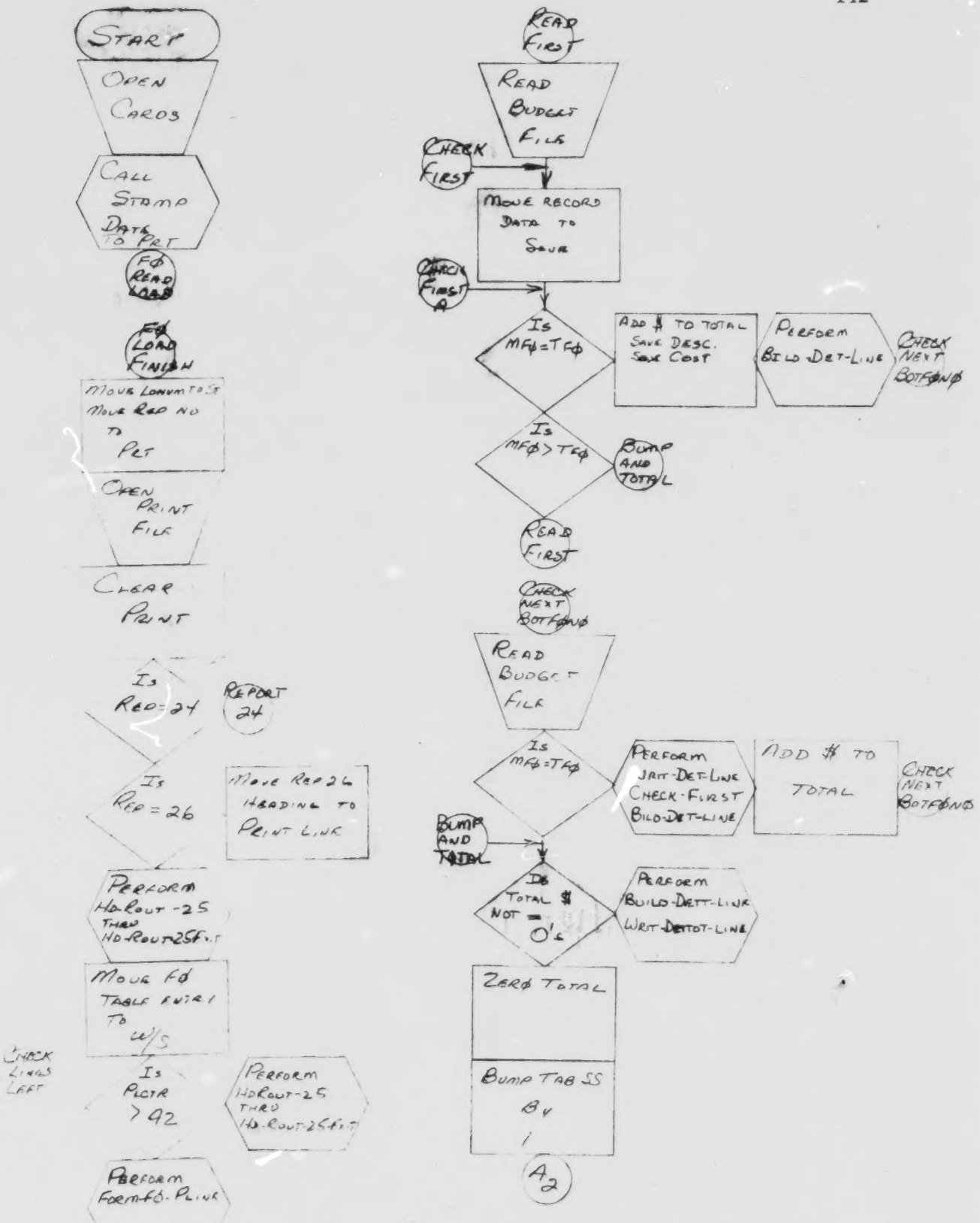
Column	Description
1-7	Function/Object Code
8-37	Line Item Name
38-60	Blank
61-70	Dollar amount expended last year
71-80	Budget dollar amount last year

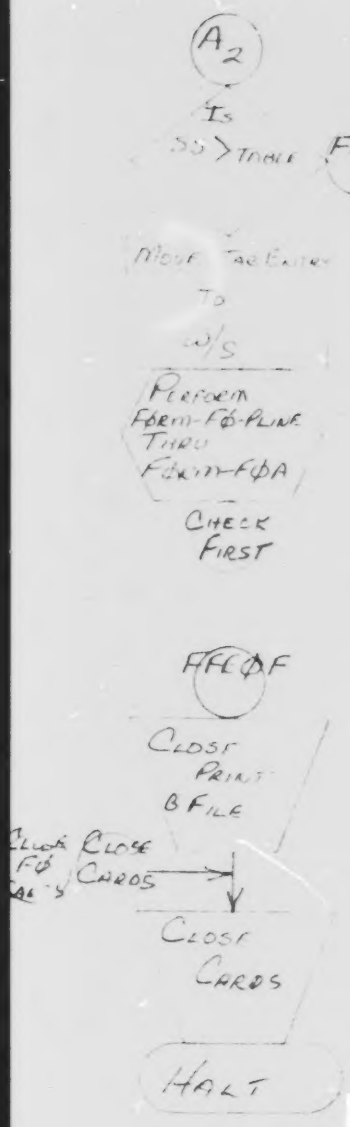
The program is so written to allow for the total budget file to be processed through complete sequence of function object codes or any sequence of cards or paragraphs.

By flagging those codes that appear on the budget file but not in the card deck, we hope to provide some assistance in the punching of the new coded cards or signal those in error.

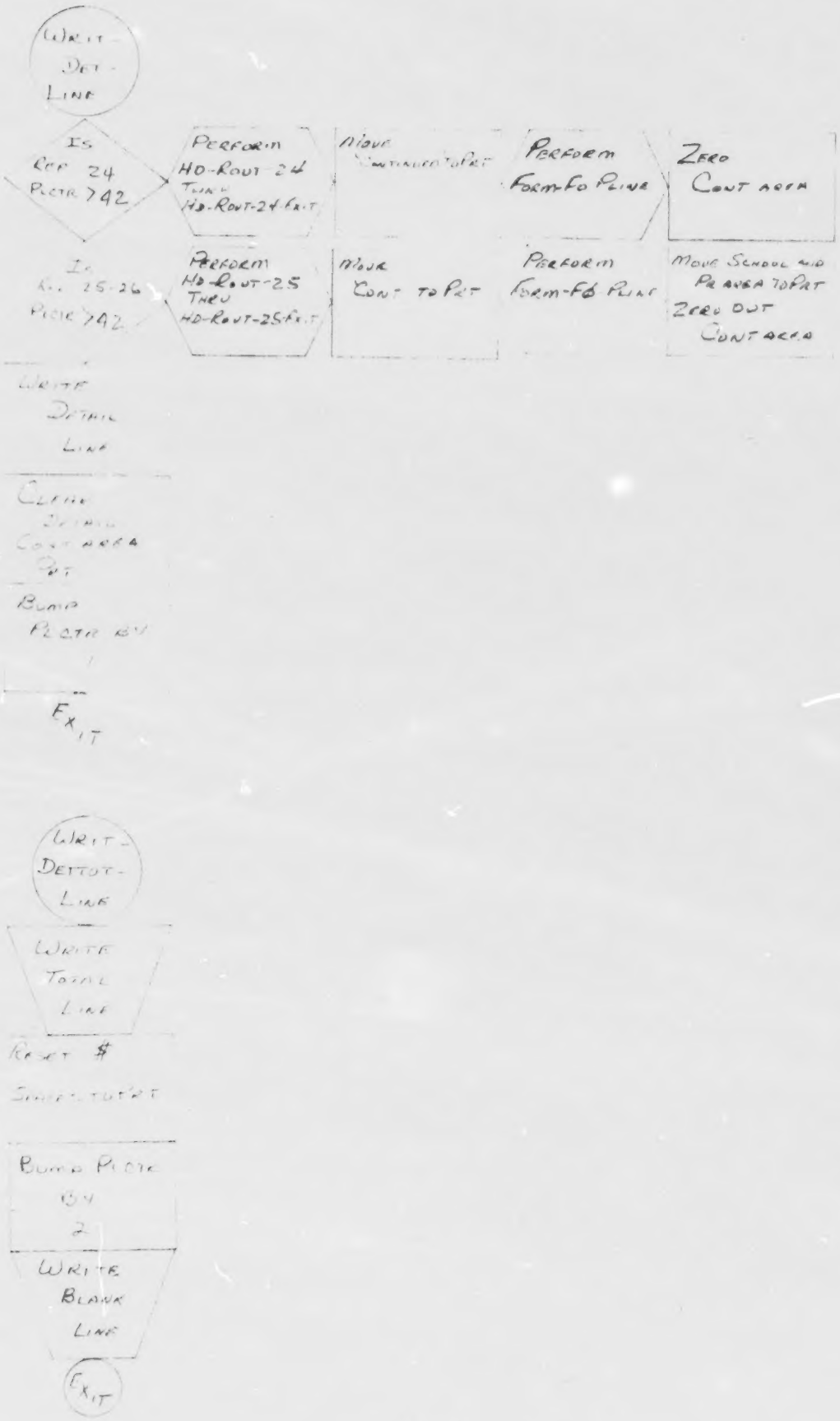
A sample card deck schematic is attached to help clarify this narrative.

SCHLST


START
OPEN CARDS
CALL STAMP DATE TO PRT
F0 READ LOAD
F0 LOAD FINISH
MOVE LOW VALUE TO SPACE MOVE REP NO TO PRT
OPEN PRINT FILE
CLEAR PRINT
IS REP=24
REPORT 24
IS REP=26
MOVE REP 26 HEADING TO PRINT LINE
PERFORM HD-ROUT-25 THRU HD-ROUT-25-FIN
MOVE F0 TABLE ENTRY TO W/S
IS PLOTR > 42
PERFORM HD-ROUT-25 THRU HD-ROUT-25-FIN
PERFORM FORM-F0-PLINE
CHECK LINES LEFT
READ FIRST
READ BUDGET FILE
CHECK FIRST
MOVE RECORD DATA TO SAVE
CHECK FIRST A
IS MF0=TF0
ADD $ TO TOTAL SAVE DESC. SAVE COST
PERFORM BUILD-DET-LINE
CHECK NEXT BOTF0N0
IS MF0>TF0
BUMP AND TOTAL
READ FIRST
CHECK NEXT BOTF0N0
READ BUDGET FILE
IS MF0=TF0
PERFORM WRIT-DET-LINE CHECK-FIRST BUILD-DET-LINE
ADD $ TO TOTAL
CHECK NEXT BOTF0N0
BUMP AND TOTAL
IS TOTAL $ NOT = 0'S
PERFORM BUILD-DETT-LINE WRIT-DETTOT-LINE
ZERO TOTAL
BUMP TABSS BY 1
A2


A2
Is
SS > THRU FFEØF
MOVE FOR ENTRY
TO
W/S
PERFORM
FORM-FØ-PLINE
THRU
FORM-FØA
CHECK
FIRST
FFEØF
CLOSE
PRINT
BFILE
CLOSE
CARDS
CLOSE
CARDS
HALT

REPORT 24
PERFORM HEADING
PERFORM FORM-FIELDS
READ ONE
CHECK ONE
ADD $ TO TOTAL
SAVE CREDIT
PERFORM BUILD-DETAIL-LINE
CHECK NXT BOTFOUND
BUMP AND TOTAL
READ ONE
CHECK NXT BOTFOUND
PERFORM WRITE-DETAIL-LINE
CHECK-FIELDS
BUILD-DETAIL-LINE
ADD $ TO TOTAL
CHECK NXT BOTFOUND
BUMP AND TOTAL
PERFORM BUILD-DETAIL-LINE
WRITE-DETAIL-LINE
MOVE TAG FURY
ZERO TOTAL
PERFORM FORM-FIELDS
FORM-FIELDS
CHECK ONE


WRIT-DET-LINE
IS SUB 24 PLCTR > 42
PERFORM HD-ROUT-24 THRU HD-ROUT-24-EXIT
MOVE CONTROLLED TO PRT
PERFORM FORM-FD-LINE
ZERO CONT AREA
IS SUB 25-26 PLCTR > 42
PERFORM HD-ROUT-25 THRU HD-ROUT-25-EXIT
MOVE CONT TO PRT
PERFORM FORM-FD-LINE
MOVE SCHOOL AND PRAREA TO PRT
ZERO OUT CONT AREA
WRITE DETAIL LINE
CLEAR DETAIL CONT AREA PRT
BUMP PLCTR BY 1
EXIT
WRIT-DETTOT-LINE
WRITE TOTAL LINE
RESET $
SHIFT TO PRT
BUMP PLCTR BY 2
WRITE BLANK LINE
EXIT

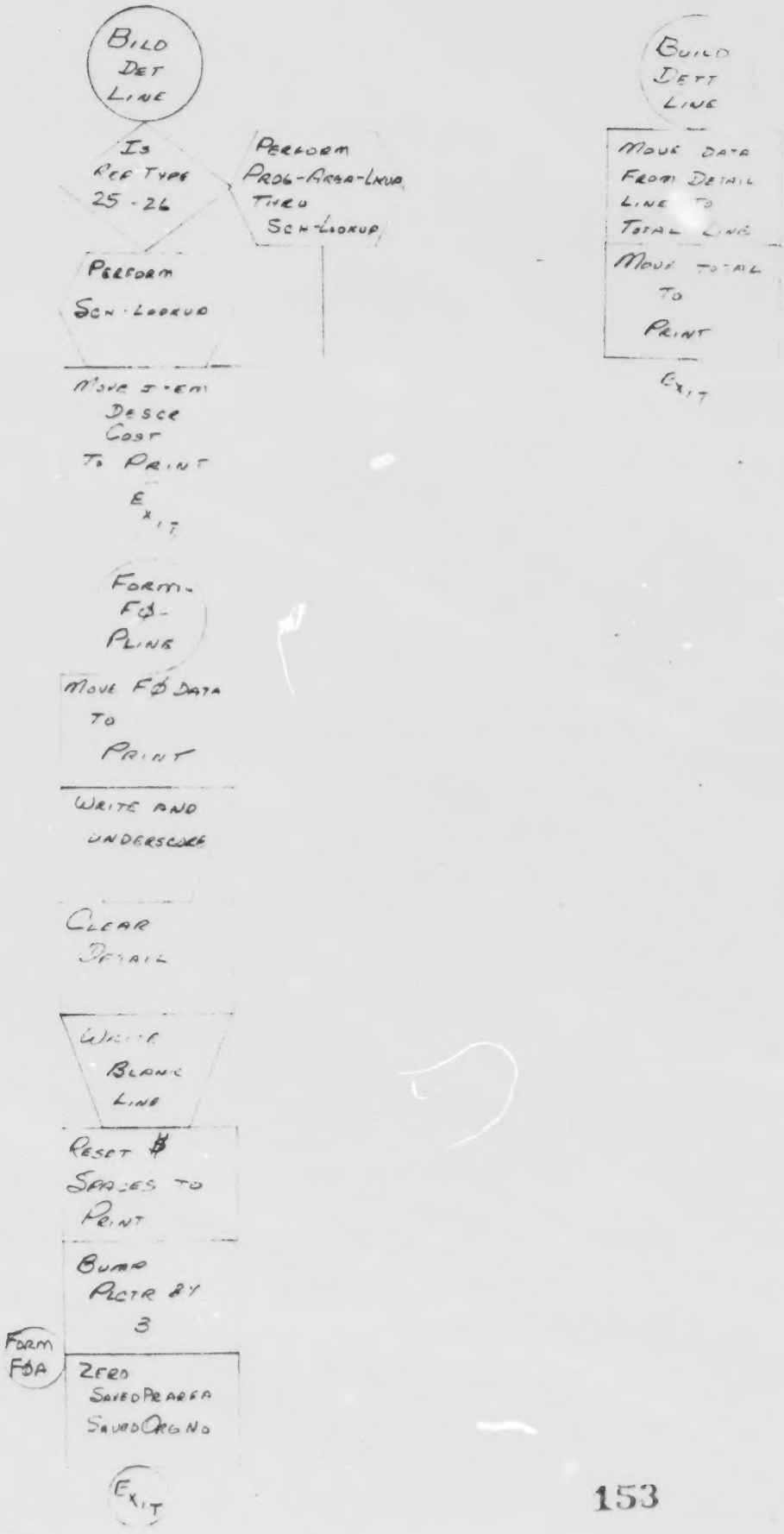
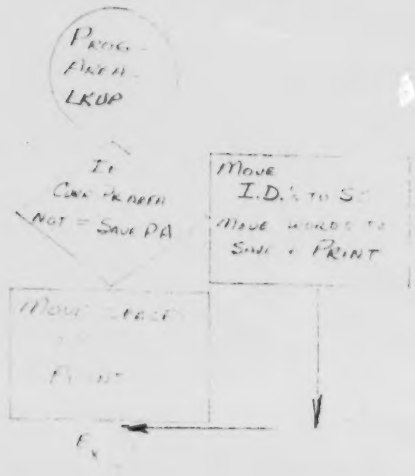
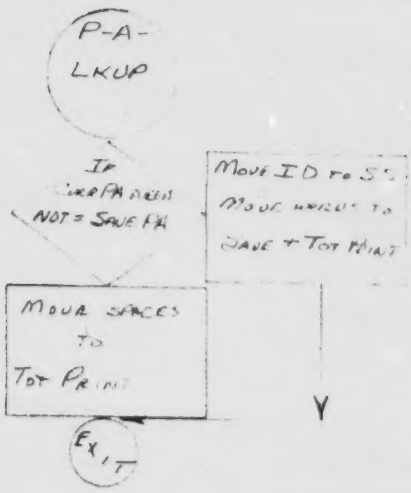
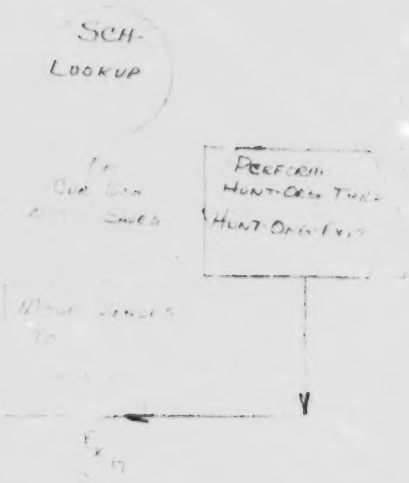
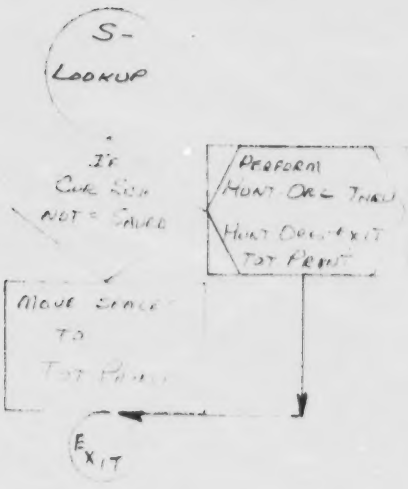


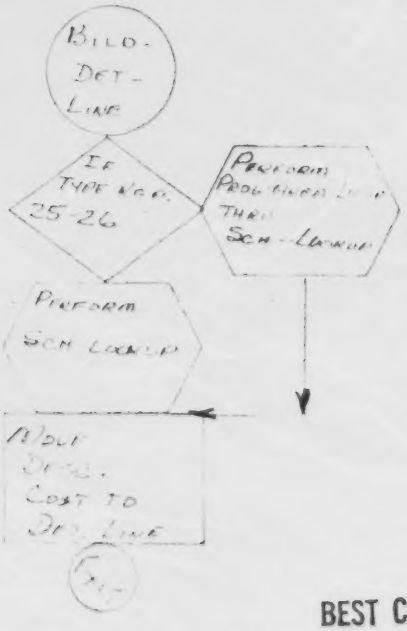
BILD DET LINE
IS REC TYPE 25 - 26
PERFORM SCH-LOOKUP
PERFORM PROG-AREA-LKUP THRU SCH-LOOKUP
MOVE ITEM DESCR COST TO PRINT
EXIT
FORM-FD-PLINE
MOVE FD DATA TO PRINT
WRITE AND UNDERSCORE
CLEAR DETAIL
WRITE BLANK LINE
RESET # SPACES TO PRINT
BUMP PCTR BY 3
FORM FDA
ZERO SAVEDPRAREA SAVEDGRONO
EXIT
BUILD DETT LINE
MOVE DATA FROM DETAIL LINE TO TOTAL LINE
MOVE TOTAL TO PRINT
EXIT

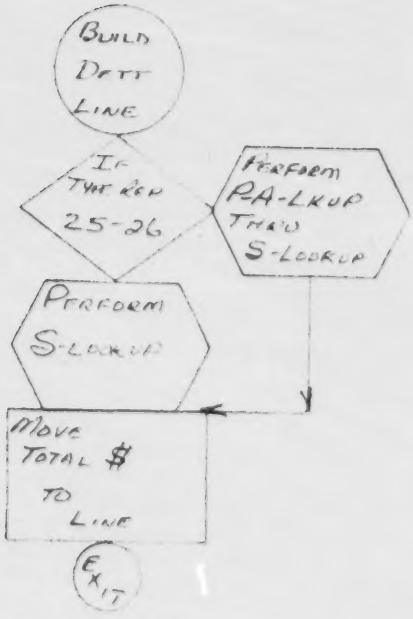












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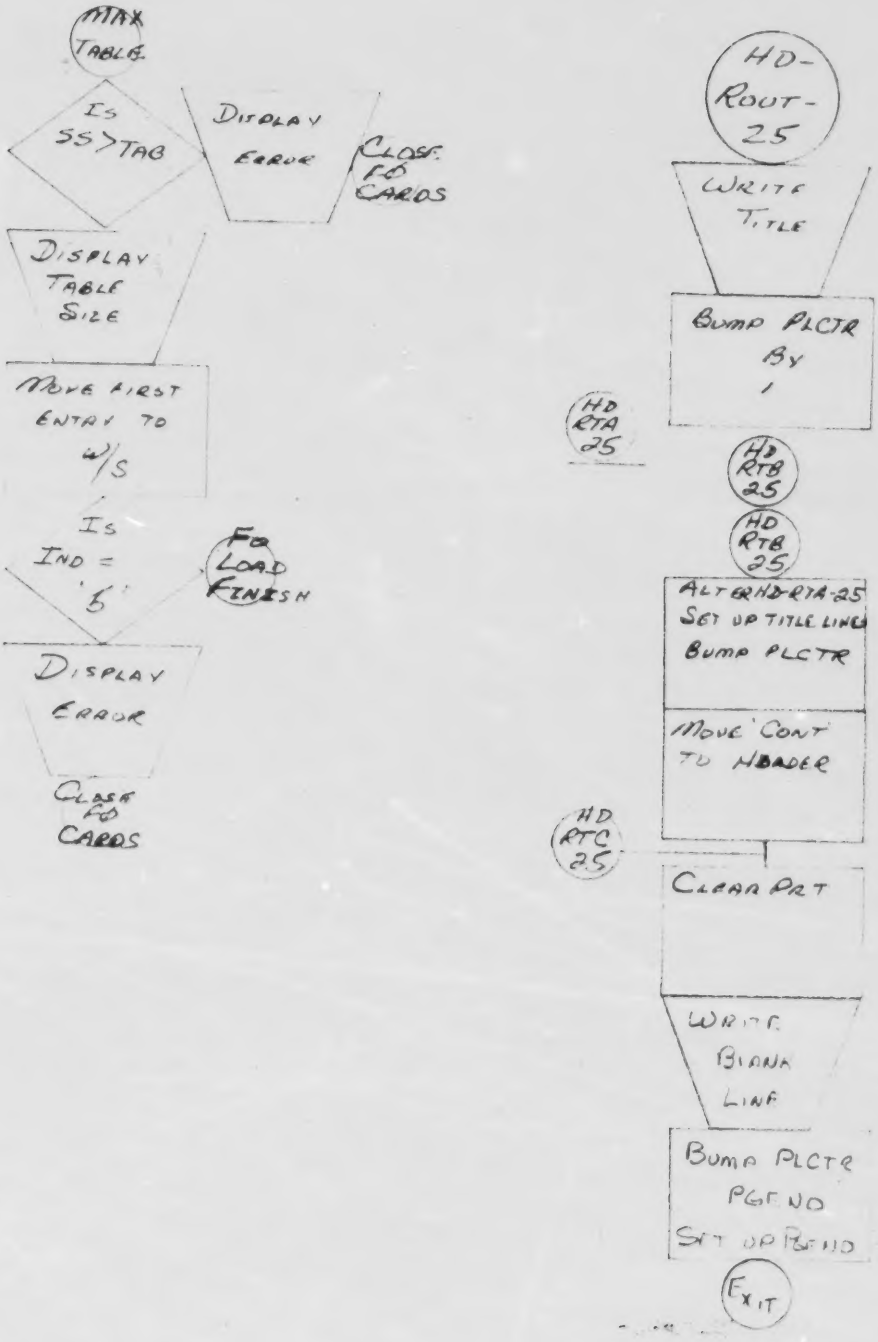
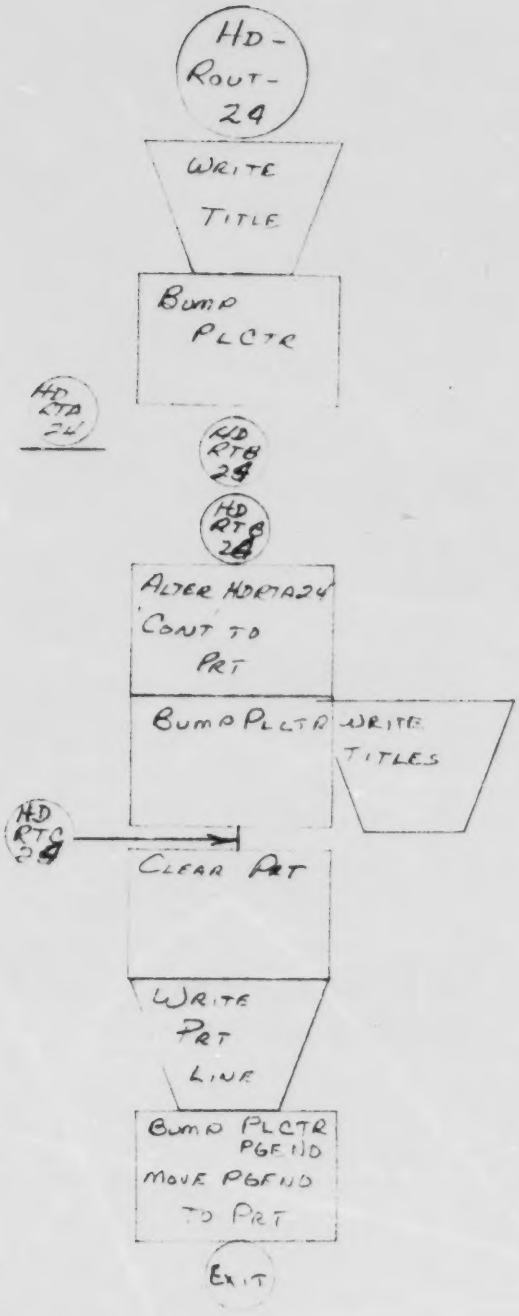
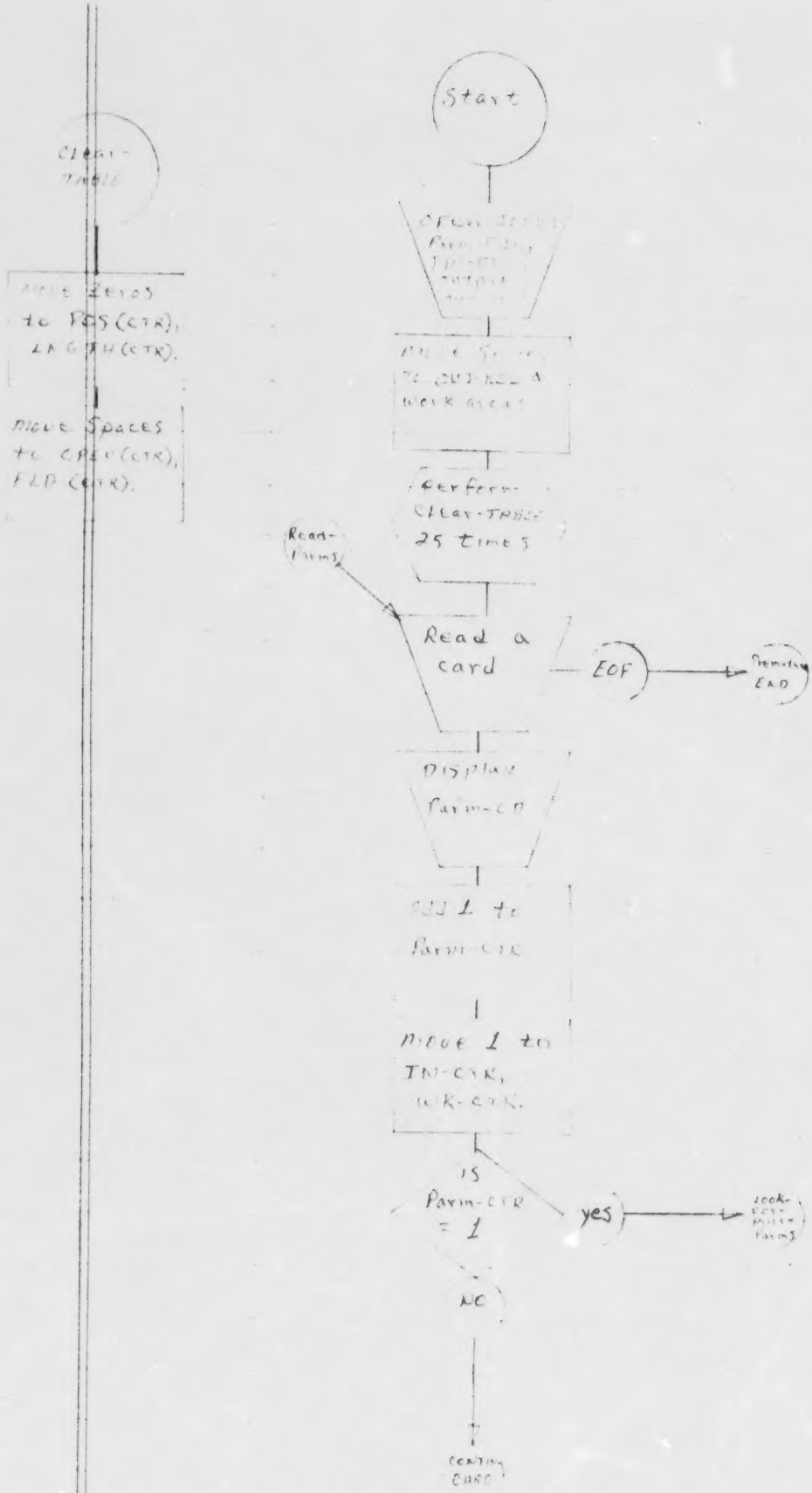
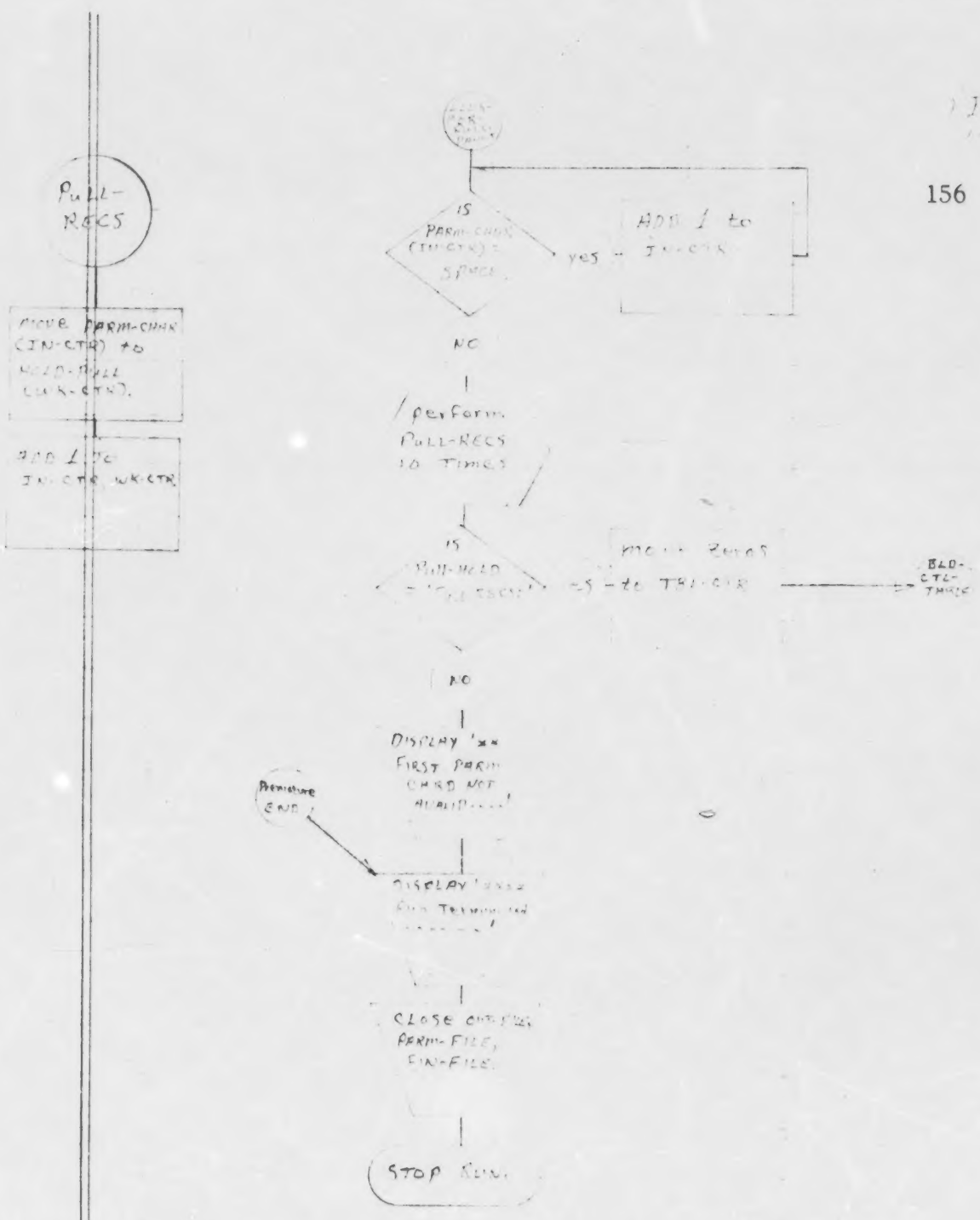
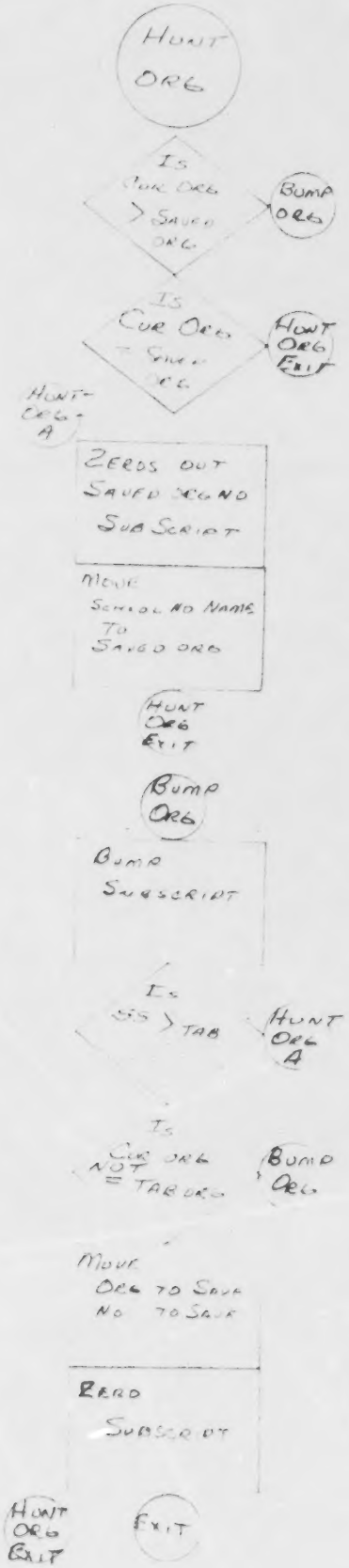
FØ-READ-LOAD
READ CARDS
Is FØ NUM = ZEROS
DISPLAY ERROR
CLOSE FØ CARDS
STORE PARAMETER DATA
LOAD SCH CARDS
READ CARDS
DISPLAY ERROR
CLOSE CARDS
Is FUND = 00
TRIM SCHOOL TAB
Is FUND NOT = SS
DISPLAY ERROR
CLOSE CARDS
BUMP SCH SS
MOVE SCHOOL NAME NUM TO TAB
LOAD SCH CARDS
LOAD PA CARDS
READ CARDS
DISPLAY ERROR
CLOSE CARDS
Is FUND NOT = 00
DISPLAY ERROR
CLOSE CARDS
TRIM SCHOOL TAB
MOVE PROG. AREA NAME TO TABLE
Is ADD = 04 PERFORM = 60
FØ AGAIN
LOAD PA CARDS
FØ AGAIN
READ CARDS
MAX TABLE
Is FØ NUM > STORE NUM
ADD LOAD
Is IND FIELD NOT = 'b'
DISPLAY ERROR
FØ AGAIN
FØ LOAD
Is SS > TAB
DISPLAY ERROR
CLOSE FØ CARDS
BUMP SS MOVE FØ TITLE TO TABLE
FØ AGAIN


MAX TABLE
Is SS > TAB
DISPLAY ERROR
CLOSE FD CARDS
DISPLAY TABLE SIZE
MOVE FIRST ENTRY TO W/S
Is IND = '5'
FD LOAD FINISH
DISPLAY ERROR
CLOSE FD CARDS
HD-ROUT-25
WRITE TITLE
BUMP PLCTR BY 1
HD RTA 25
HD RTB 25
HD RTB 25
ALTER HD-RTA-25 SET UP TITLE LINE BUMP PLCTR
MOVE CONT TO HDADER
HD RTC 25
CLEAR PRT
WRITE BLANK LINE
BUMP PLCTR PGFND SET UP PGFND
EXIT


HD-ROUT-24
WRITE TITLE
BUMP PLCTR
HD RTB 24
HD RTB 24
HD RTB 24
ALTER HDRTA24 CONT TO PRT
BUMP PLCTR
WRITE TITLES
HD RTB 24
CLEAR PRT
WRITE PRT LINE
BUMP PLCTR PGE ND
MOVE PGE ND TO PRT
EXIT


Start
Read a card
EOF
Display Parm-CTR
Add 1 to Parm-CTR
Move 1 to TN-CTR, WK-CTR.
IS Parm-CTR = 1
yes
NO
Perform Clear-TABLE 25 times
Read-Parms
Clear-TABLE
Move Zeros to POS(CTR), LENGTH(CTR).
Move Spaces to OPER(CTR), FLD(CTR).


PULL-RECS
MOVE PARM-CHAR (IN-CTR) TO HOLD-PULL CHAR-CTR.
ADD 1 TO IN-CTR WK-CTR.
IS PARM-CHAR (IN-CTR) = SPACE
yes
ADD 1 to IN-CTR
NO
perform PULL-RECS 10 TIMES
IS PULL-HOLD = 'Y' OR 'y'
yes
MOVE ZEROS TO TRI-CTR
BLD-CTL-TABLE
NO
DISPLAY 'xx FIRST PARM CHAR NOT ALPHA...'
PREMATURE END
CLOSE CUST-FILE, PARM-FILE, FIN-FILE.
STOP RUN.


HUNT ORG
IS CUR ORG > SAVED ORG
BUMP ORG
IS CUR ORG = SAVED ORG
HUNT ORG EXIT
HUNT ORG A
ZEROS OUT SAVED XG NO SUB SCRIPT
MOVE SCHOOL NO NAME TO SAVED ORG
HUNT ORG EXIT
BUMP ORG
BUMP SUBSCRIPT
IS SS > TAB
HUNT ORG A
IS CUR ORG NOT = TAB ORG
BUMP ORG
MOVE ORG TO SAVE NO TO SAVE
READ SUBSCRIPT
HUNT ORG EXIT
EXIT

MIS FINANCE

Budget Pull Records (FISELECT)

The purpose of this program is to select and write to a new file records contained in a school district's item budget file.

This program reads a sequential master file in program account code sequence and creates a new file of records based on specifications provided through parameter cards (see ' PULL RECS ' Parameter Card Description and Restrictions).

As input the program uses the following files:

1. Parameter Card (S).
2. Master Budget file.

Output of the program includes:

1. Printed displays of the parameters used, the records selected, and counts of the number of records on the input master file and the number of records on the output file.
2. A disk or tape file of records selected (Master Budget file record format).

This program is an MIS Finance Tract Utility program and as such does not fall into a routine series of processing steps but will more probably be used on a ' one shot ' basis when the need arises.

'PULL RECS' Parameter Card Description and Restrictions

1. Only 1 card beginning with 'PULL RECS=' in column 2-11 per run (must be first card of group). All other parameter cards must be continuations of original PULL RECS card. (Continuations must be indicated by a non-blank in column 72 of card to be continued. Continuation cards must start in column 2 or after).

2. Valid fields for parameters in all cards are between columns 2 and 71.

3. Maximum of 25 conditions (i.e., =, <, >) in each run.

4. Format of 'PULL RECS' card:

Column 1 = blank
2- 11 = 'PULL␣RECS='
12 = '('
13- 71 = Floating Field (no intervening blanks except in data field, i.e., after an =, <, or >).

A. All fields specified are considered in selecting or rejecting the record.
B. Fields preceded by '=' must be specified first in a group of conditions with the same relative beginning position in the record.
C. '=' conditions for the same field are treated as 'OR' conditions; '<' or '>' conditions are treated as absolute conditions.
D. Format of floating fields are:

(1) 1 thru 3 characters = Beginning position of field in the record.
(2) Comma
(3) 1 thru 3 characters = Length of field.
(4) Comma
(5) Condition sign = '=', '<' or '>'
(6) Field data = any alphanumeric combination of characters which, when matched to the same characters on file, will cause that record to be selected and written to the output file. Blanks to the right of significant data may be omitted.

E. Floating Format may be repeated until all qualifying fields are specified (maximum of 25 conditions - see 3. above).

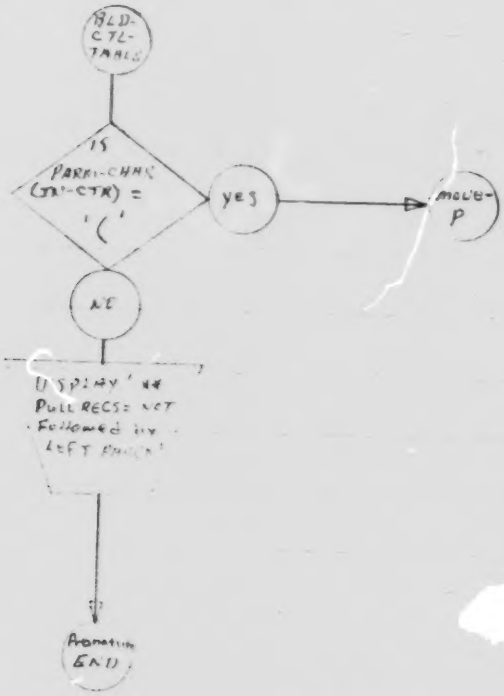
5. Continuation

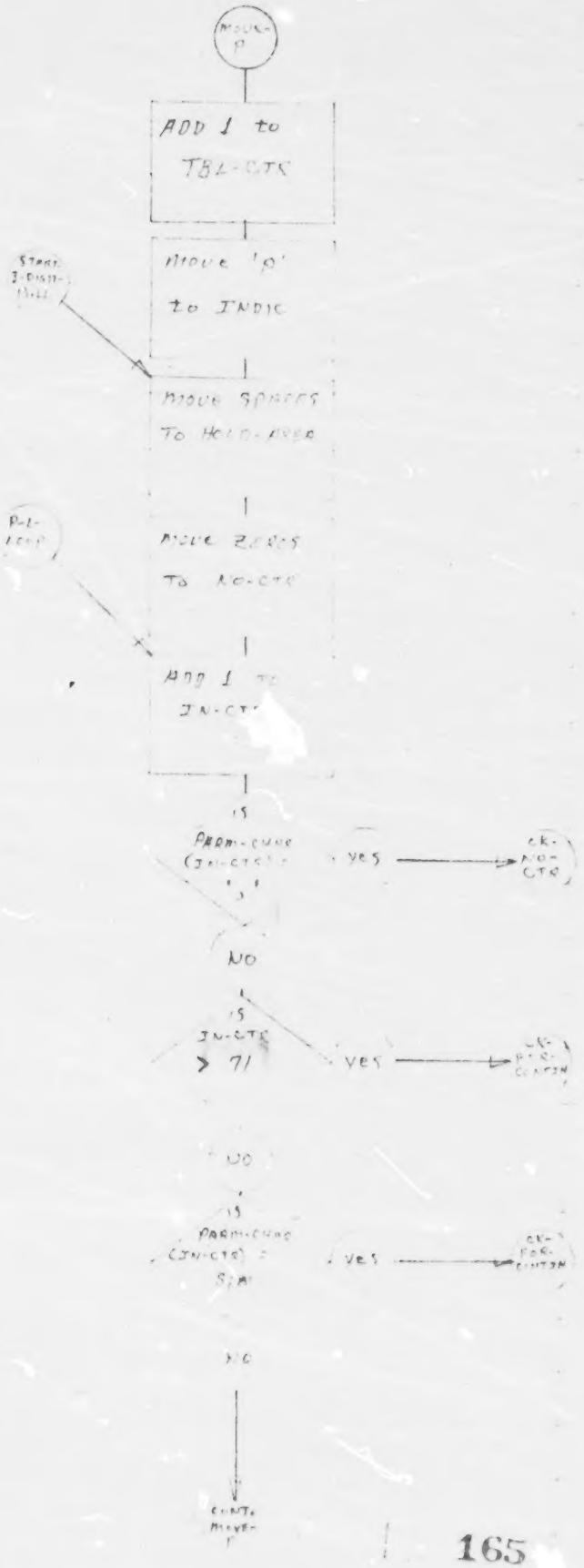
A. Put a non-blank character in column 72 of card to be continued

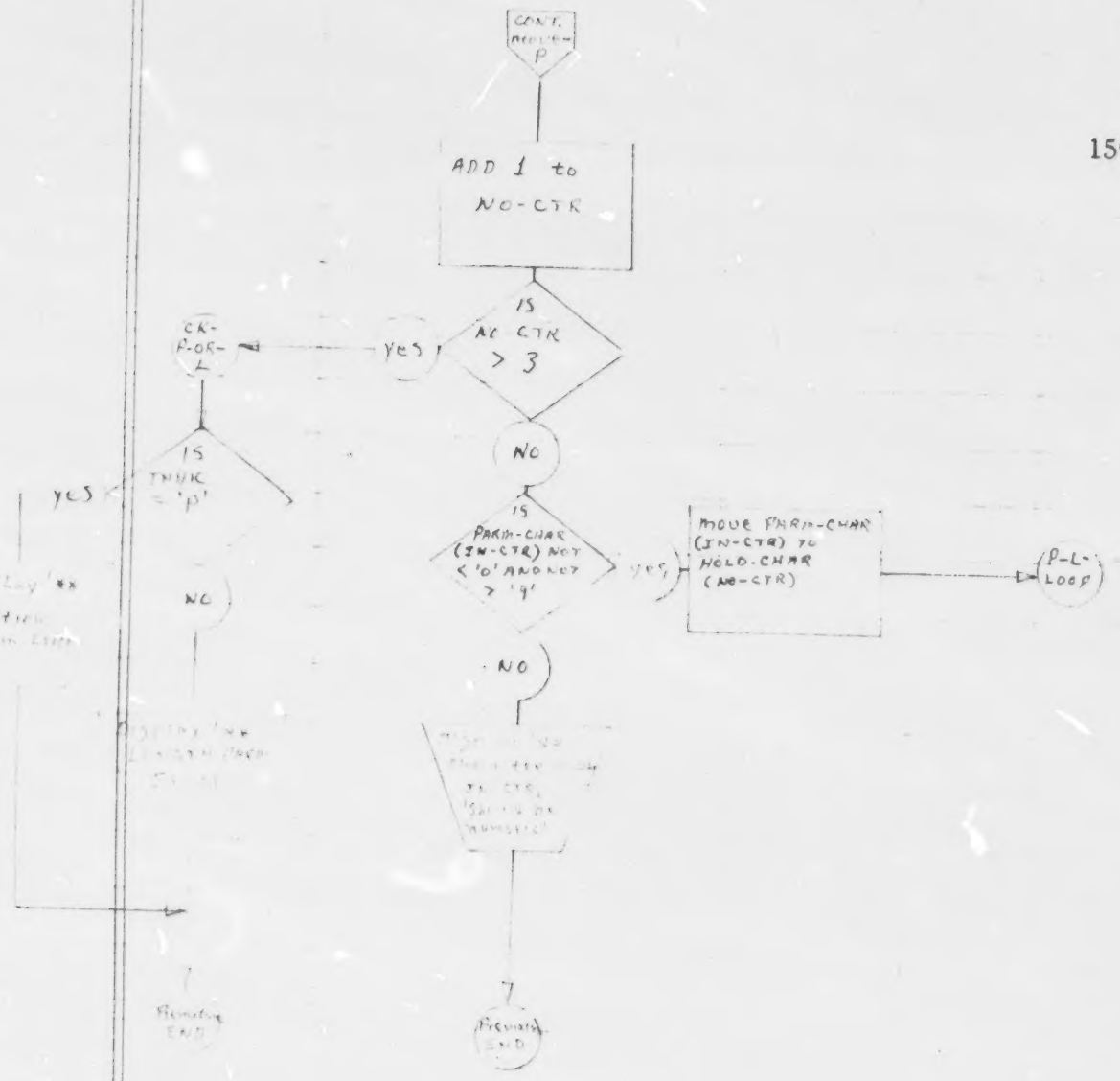
B. Break for continuation only after a comma (,).
C. Begin continuation card in column 2 or after.
D. If additional conditions for the same field are continued put a comma after the last condition on the continued card and recode the position and length parameters on the continuation card before coding the remaining conditions for that field.

NOTE: Parameters must be terminated by a right parenthesis ')' after the last data field.

6. See attached sample parameter cards.


BLD-CTL-TABLE
IS PARM-CHAR (SUB-CTR) = '('
yes
move-p
NE
DISPLAY '** PULL RECS= NOT Followed by LEFT PAREN'
Procedure EXIT


ADD 1 to
TBL-CTS
Move 'p'
to INDIC
Move SPACES
To HOLD-AREA
Move ZEROS
To NO-CTR
ADD 1 TO
IS
YES
NO
IS
> 71
YES
NO
IS
YES
NO



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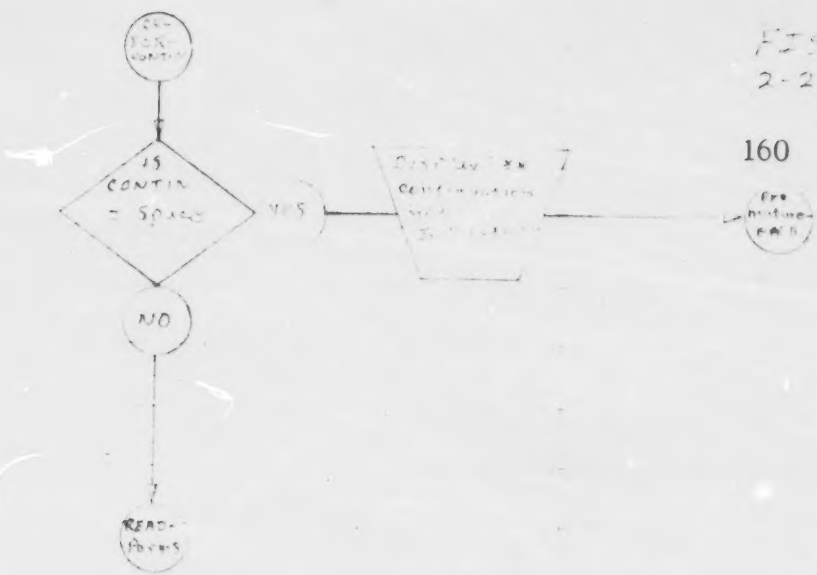
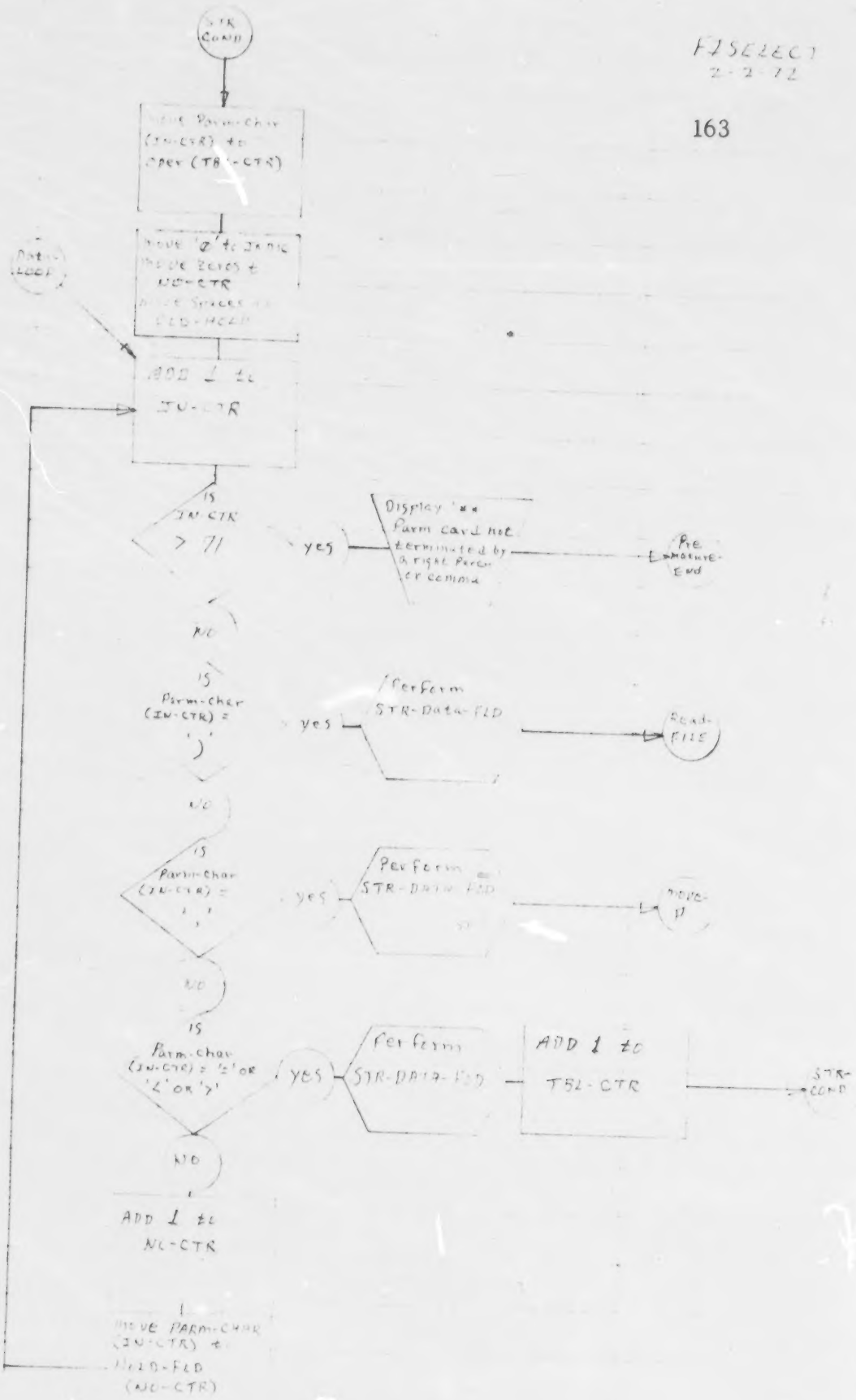
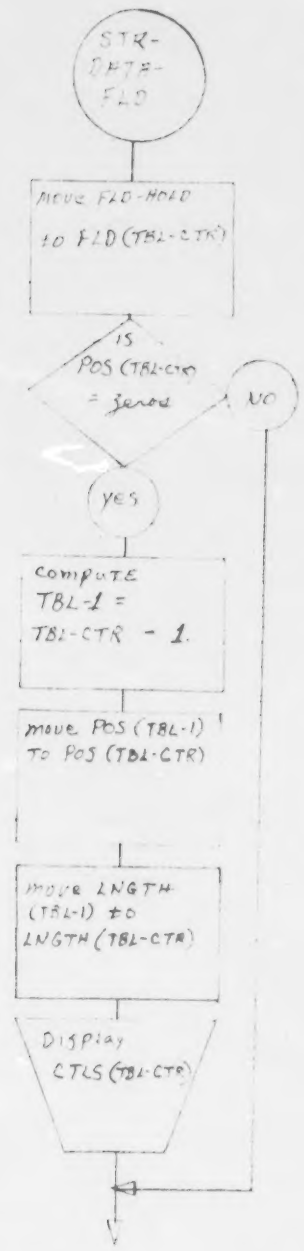
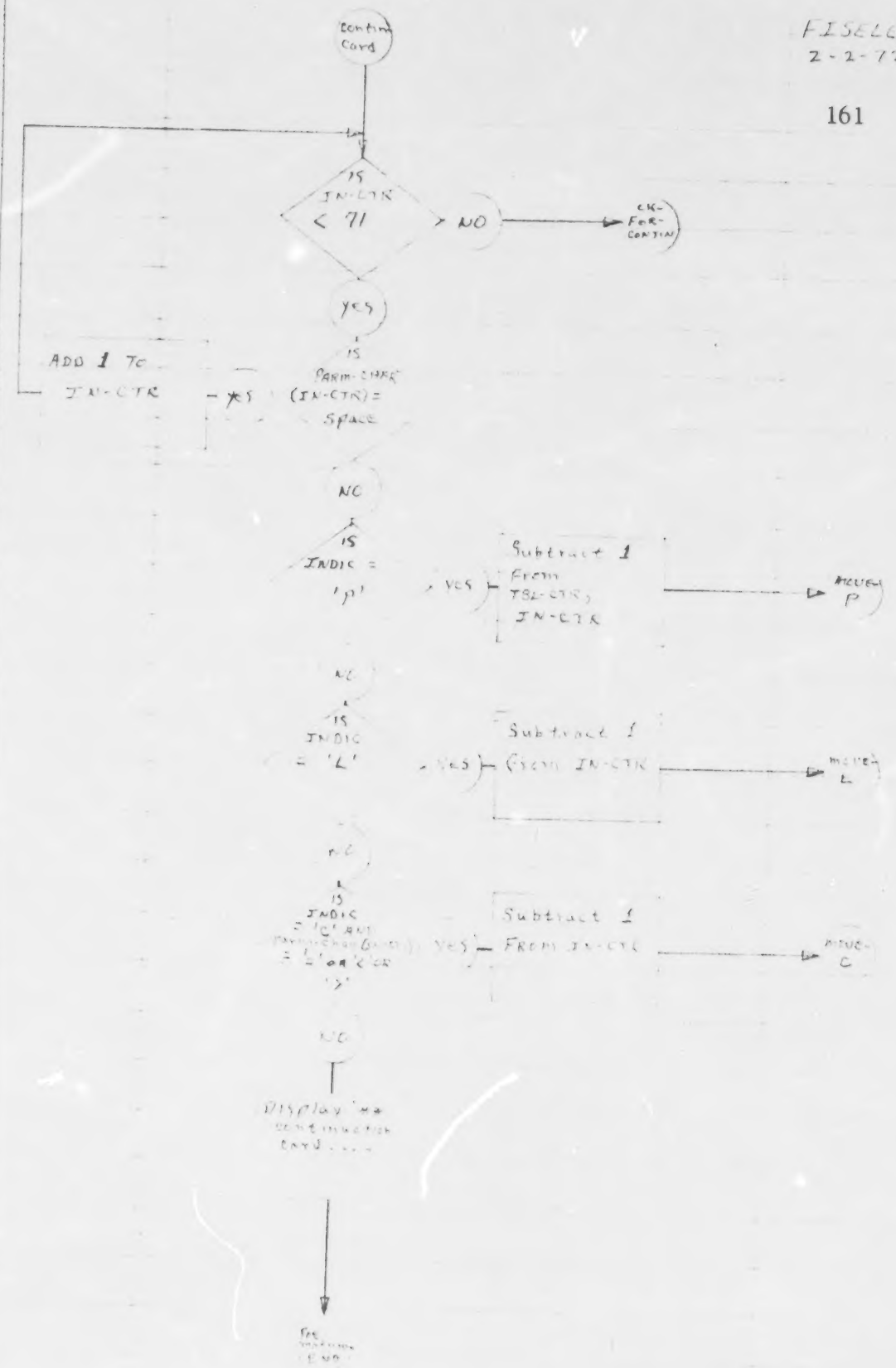
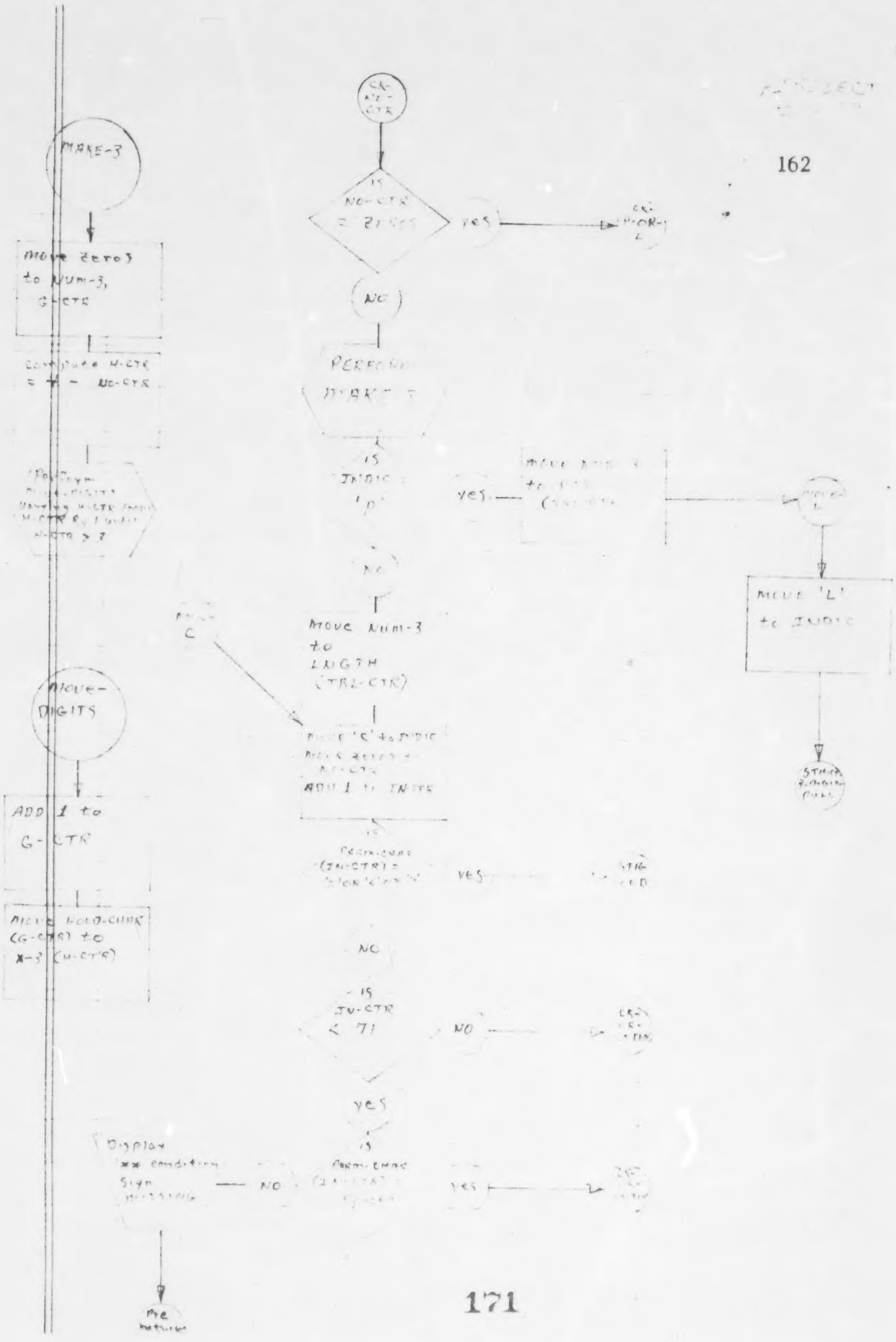

IS
CONTIN
= SPACE
YES
NO
160

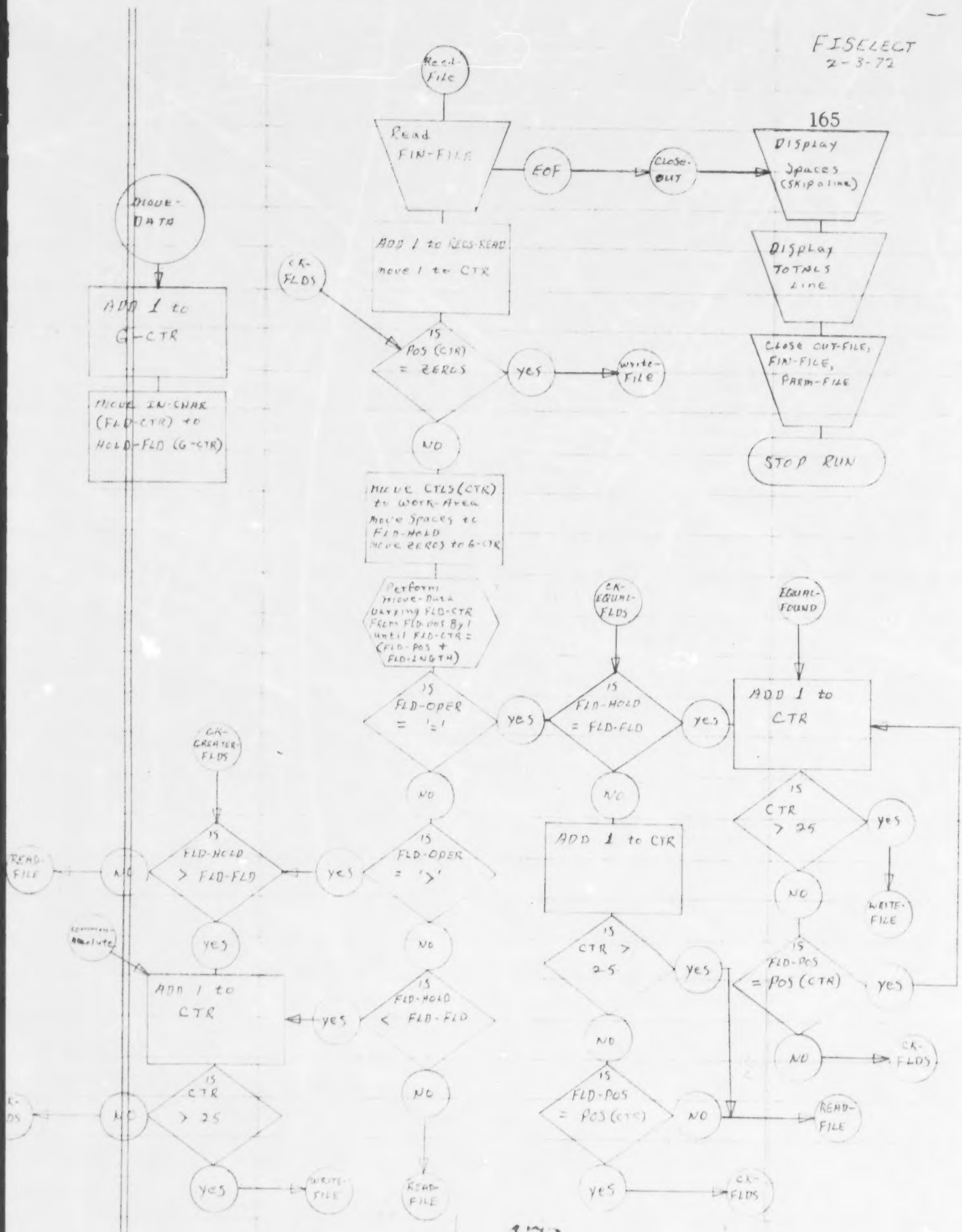

STR COND
Move Parm-Char (IN-CTR) to Oper (TB-CTR)
Move '0' to Junk Inside Zeros to NC-CTR
Move Spaces to FLD-HOLD
Data-LOOP
ADD 1 to IN-CTR
IS IN CTR > 71
yes
Display "** Parm card not terminated by a right Paren or comma
Pre Mature-End
no
IS Parm-char (IN-CTR) = ' '
yes
Perform STR-Data-FLD
Read-FILE
no
IS Parm-char (IN-CTR) = ' '
yes
Perform STR-DATA-FLD
MOVE-ID
no
IS Parm-char (IN-CTR) = '<' OR '(' OR '>'
yes
Perform STR-DATA-FLD
ADD 1 to TBL-CTR
STR-COND
no
ADD 1 to NL-CTR
MOVE PARM-CHAR (IN-CTR) to NEW-FLD (NL-CTR)

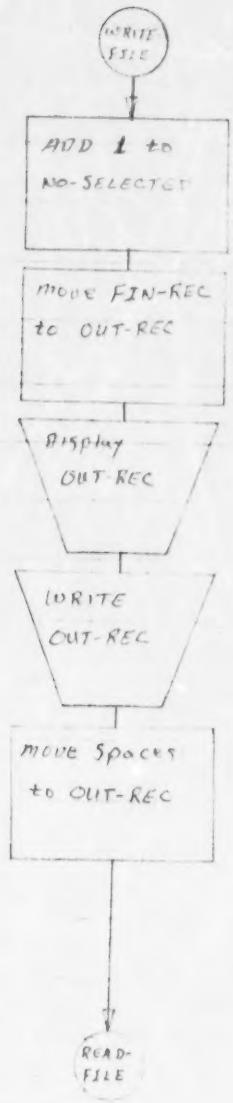

STR-
DATA-
FLD
MOVE FLD-HOLD
TO FLD (TBL-CTR)
IS
POS (TBL-CTR)
= zeros
NO
YES
COMPUTE
TBL-1 =
TBL-CTR - 1.
MOVE POS (TBL-1)
TO POS (TBL-CTR)
MOVE LNGTH
(TBL-1) TO
LNGTH (TBL-CTR)
Display
CTLS (TBL-CTR)


Continue Card
IS IN-CTR < 71
NO
CK-FOR-CONTIN
YES
IS PARM-CHAR (IN-CTR) = Space
YES
ADD 1 TO IN-CTR
NO
IS INDIC = 'P'
YES
Subtract 1 From TBL-CTR, IN-CTR
MOVE P
NO
IS INDIC = 'L'
YES
Subtract 1 From IN-CTR
MOVE L
NO
IS INDIC = 'C' AND PARM-CHAR (IN-CTR) = 'L' OR 'C' OR '>'
YES
Subtract 1 From IN-CTR
MOVE C
NO
Display "no continuation cards ..."
FSE TRANSACTION END


MAKE-3
Move zeros to NUM-3, G-CTR
Compute M-CTR = 11 - NC-CTR
Position move digits moving M-CTR by 1 until M-CTR > 7
MOVE-DIGITS
ADD 1 to G-CTR
MOVE NUM-CHAR (G-CTR) to X-3 (M-CTR)
NC
Perform Indic 'D'
IS INDIC 'D'
yes
NC
Move NUM-3 to LNGTH (CTR2-CTR)
Move 'C' to INDIC
Move zeros to M-CTR
ADD 1 to IN-CTR
Perform (IN-CTR = 'CHARACTER')
yes
NC
IS IN-CTR < 71
NO
yes
IS PUNC-CHAR (IN-CTR) = 'CHARACTER'
yes
NO
Display ** condition Sign missing
NO
yes
Move 'L' to INDIC
Move L
Move C
Move L
Move L
Move L

FISELECT
2-3-72




WRITE FILE
ADD 1 to NO-SELECTED
move FIN-REC to OUT-REC
display OUT-REC
WRITE OUT-REC
move Spaces to OUT-REC
READ-FILE

MIS FINANCE
VENDOR LISTS (VENDRLST)

The purpose of this program is to provide a listing of budget items by catalog number within vendor number or by catalog number within Vendor number within school.

The program, after storing the school cards and deciding upon the type of list, begins to read each budget item. It adds each item's cost to appropriate totals and then the item's descriptive information is printed and the totals for catalog number, Vendor number and school are printed at the proper time.

The program uses as input:

1. Parameter cards - school and run type.
2. Master Budget File.

Output for the program is:

1. Printed output ordered by Vendor or school of the budget items.

The program provides a detailed list either by Vendor within district or Vendor within school of the budget items with convenient totals for MIS Finance Tract.

The Parameter card input for the Vendor Lists program comes in two formats. The first is the school parameter card. This consists of the type of card, the school name, and number. The second, the run card, consists of card type, district name and number, budget run number, and run type. A '1' in run type gives a catalog within Vendor by school listing and a '2' gives a catalog within Vendor listing.

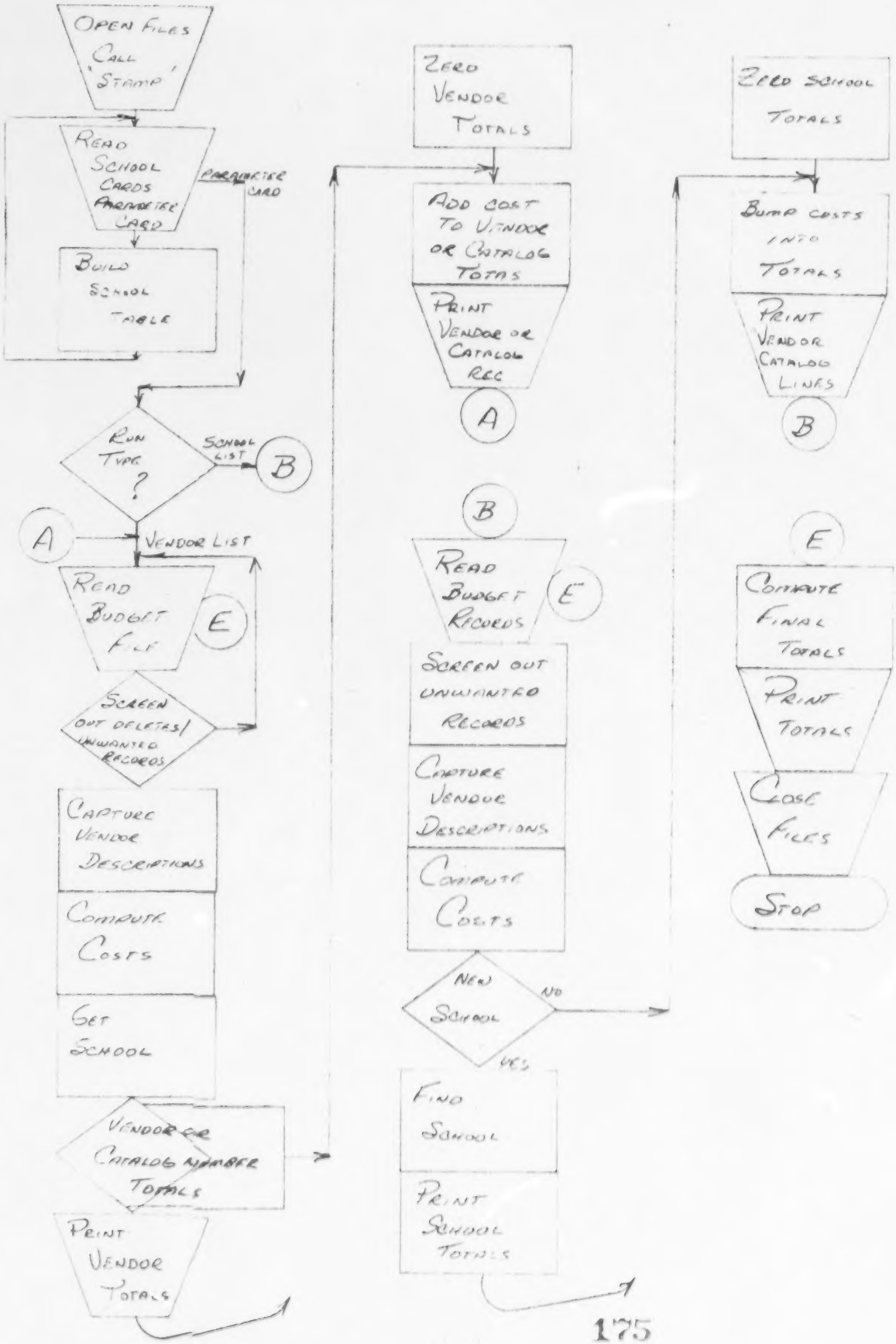
Parameter Cards School Cards:

Columns	Description
1	Card Type
2-24	School Name
25-28	Blank
29-31	School Number
32-80	Blank

RUN CARD:

1-21	Blank
22-46	District Name
47-65	Blank
66-69	District Number
70-72	Blank
73-75	Budget Run Number
76	Run Type
77-79	Blank
80	Card Type

VENDRLST - SALRYLST



FORMATS

Header Card

Columns	Description
1-7	Zeros
8-32	District Name
33-49	Current Budget Years Example 1ϕ 9ϕ 7ϕ 2ϕ - ϕ1 ϕ9 ϕ7 ϕ3
50-58	Previous Budget Years Example 1971-1972
59-67	Current Budget Years Example 1972-1973
68-73	Blank
74-75	Schedule number to be printed in heading Example 21 or 01
76-80	Zeros

Line Item/Function-Object Title and Dollars Card

Columns	Description
1-7	Line Item Code No. (2 dec. pos.)
8-37	Descriptive Title
38-60	Blank
61-70	Expended dollars current fiscal year
71-80	Budget dollars current fiscal year

Heading Title Cards (X, Y, Z)

Columns	Description
1-7	Line Item Code for start of paragraph
8-37	Blank
38-42	Paragraph starting line item code
43-47	Paragraph ending line item code
48-60	Blank
' -61	(X), (Y), (Z) type identifier
62-80	Title

Total Trigger Card

1-7	Line item code no.
8-37	Blank
38-42	Paragraph starting code
43-47	Paragraph ending code
48-60	Blank
' -61	(T)
62-80	Title to be placed on total line

Forced Total Card

1-7	Line item code no.
8-37	Blank
38-42	Paragraph Starting code no.
43-47	Zeros
48-60	Blank
' -61	(T)
62-80	Title to be placed on total line

Drop Total Card

1-7	Line item code no.
8-37	Blank
38-42	Paragraph starting code no.
43-47	(00009)
48-60	Blank
' -61	(T)
62-80	Title

MIS FINANCE
SALARY CHECK LISTS (SALRYLST)

The purpose of this program is to provide a listing of budget items by staff I. D. within organization number or by staff I. D. within district.

The program, after storing the school cards and deciding upon the type of list, begins to read each budget item. It adds each item's cost to appropriate totals and then the item's descriptive information is printed and the totals for staff I. D., Vendor number and school are printed at the proper time.

The program uses as input:

1. Parameter cards - school and run type.
2. Master Budget File.

Output for the program is:

1. Printed output budgeted by staff I. D.

The program provides a detailed list either by staff I. D. within school or staff I. D. within district of the budget items with convenient totals for MIS Finance Tract.

The Parameter card input for the Salary Lists program comes in two formats. The first is the school parameter card. This consists of the type of card, the school name, and number. The second, the run card, consists of card type, district name and number, budget run number, and run type. A '1' in run type gives a staff I. D by school listing and a '2' gives a staff I. D. by district listing.

Parameter Cards School Cards:

Columns	Description
1	Card Type
2-24	School Name
25-28	Blank
29-31	School Number
32-80	Blank

RUN CARD:

1-21	Blank
22-46	District Name
47-65	Blank
66-69	District Number
70-72	Blank
73-75	Budget Run Number
76	Run Type
77-79	Blank
80	Card Type

APPENDIX A

30-31	Department rank.
32-43	Selected Courses 4 cells of 3 characters each.
44-45	Courses rank.
46-61	Blank.
62-63	Expenditure Run
64-66	Run number
67	Fund total switch indicator 1 on Ø or 0 off
68-80	Blank.

TYPE 3 Expenditure select code card.

Columns	Description
1	Type 3
2-37	Selected Expenditure codes 9 cells of 4 characters each.
38-80	Blank.

MULTIPLE CARD FORM

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FIBUDLST

1	
2	
3	
4	
5	
6	

MULTIPLE CARD FORM

Schedule Bucket Cards

Figure 11

FIBUDLST

FORMATS

TYPE 0 — Department name card

Columns	Description
1-7	Blank
8-9	Program Number
10-11	Department number
12-21	Blank
22-31	Department name
32-79	Blank
80	Type 0

TYPE 1 — School name card

Columns	Description
1	Type 1
2-24	School name
25-28	District number
29-31	School number
32-34	Run number
35-40	Blank
41-66	District name
67-80	Blank

TYPE 2 — Summary Print Control

1	Type 2
2-13	Selected school print number 4 cells of 3 characters each. If all are to be printed ALL in first cell.
14-15	School rank for total printing. 00 01 02 03 04
16-19	Selected program 2 cells of 2 characters each.
20-21	Program rank.
22-29	Selected Departments 4 cells of 2 characters each.

BSELECT-BPRORATE STEPS

FORMATS

BSELECT-Master Control Number Card

Columns		Description
1-2		Fiscal Year
3-4		Zerox
5-14		Master Control Number
	5-7	Organization Number
	8-9	Program Number
	10-11	Department Number
	12-14	Course Number
15-21		Zeros
22-80		Blank

BPRORATE-Master Control Number Breakout Cards

Columns		Description
1-2		Fiscal Year
3-4		Zeros
5-14		Master Control Number
	5-7	Organizational Number
	8-9	Program Number
	10-11	Department Number
	12-14	Course Number
15-21		Zeros
22-		1
23-24		Number of cells
25-72		Breakout cells (4 maximum)
	25-36	Cell # 1
	25-27	Organizational Number
	28-29	Program Number
	30-31	Department Number
	32-34	Course Number
	35-36	Breakout Percent
37-48		Cell # 2
49-60		Cell # 3
61-72		Cell # 4
73-79		Blank
80		0 Zero

FORMATS

Parameter Card

Columns	Description
1-21	Blank
22-46	District Name
47-65	Blank
66-69	District Number
70-72	Blank
73-75	Run Number
76	Run Type 1 School, 2 District
77-79	Blank
80	Card Type (P)

School I.D. Card

Columns	Description
1	Card Type (I)
2-24	School Name
25-28	Blank
29-31	School I.D. Number

MULTIPLE CARD FORM

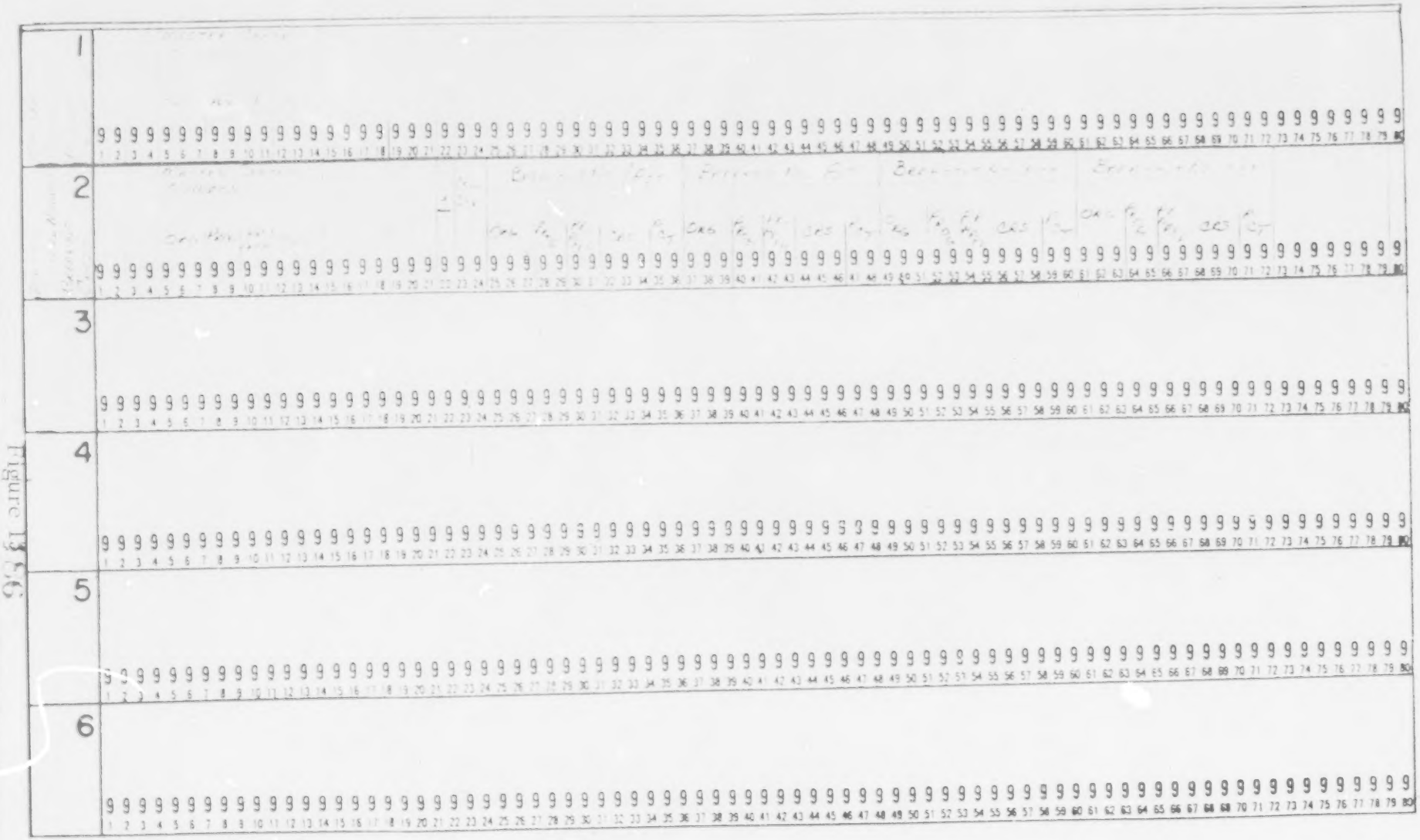

Figure 13.6

FORMATS

Parameter Card

Columns	Description
1-7	Zeros
8-32	District Name
33-49	Budget Fiscal Year
50-58	Expenditure Year
59-67	Budget Fiscal Year
68-73	Blank
74-76	Schedule Number
77-80	Zeros

School I.D. Card

Columns	Description
1-2	Fiscal Year
3-4	SS
5-7	Organizational Number
8-21	Zeros
22-44	School Name
45-80	Blank

School Department I.D. Cards

Columns	Description
1-2	Fiscal Year
3-4	Zeros
5-7	Organizational Number
8-9	Program Number
10-11	Department Number
12-21	Zeros
22-31	Department Name
32-80	Blank

Line Item Code Card

Columns	Description
1-7	Line Item Code (2 decimals)
8-37	Line Item Name
38-80	Blank

MULTIPLE CARD FORM

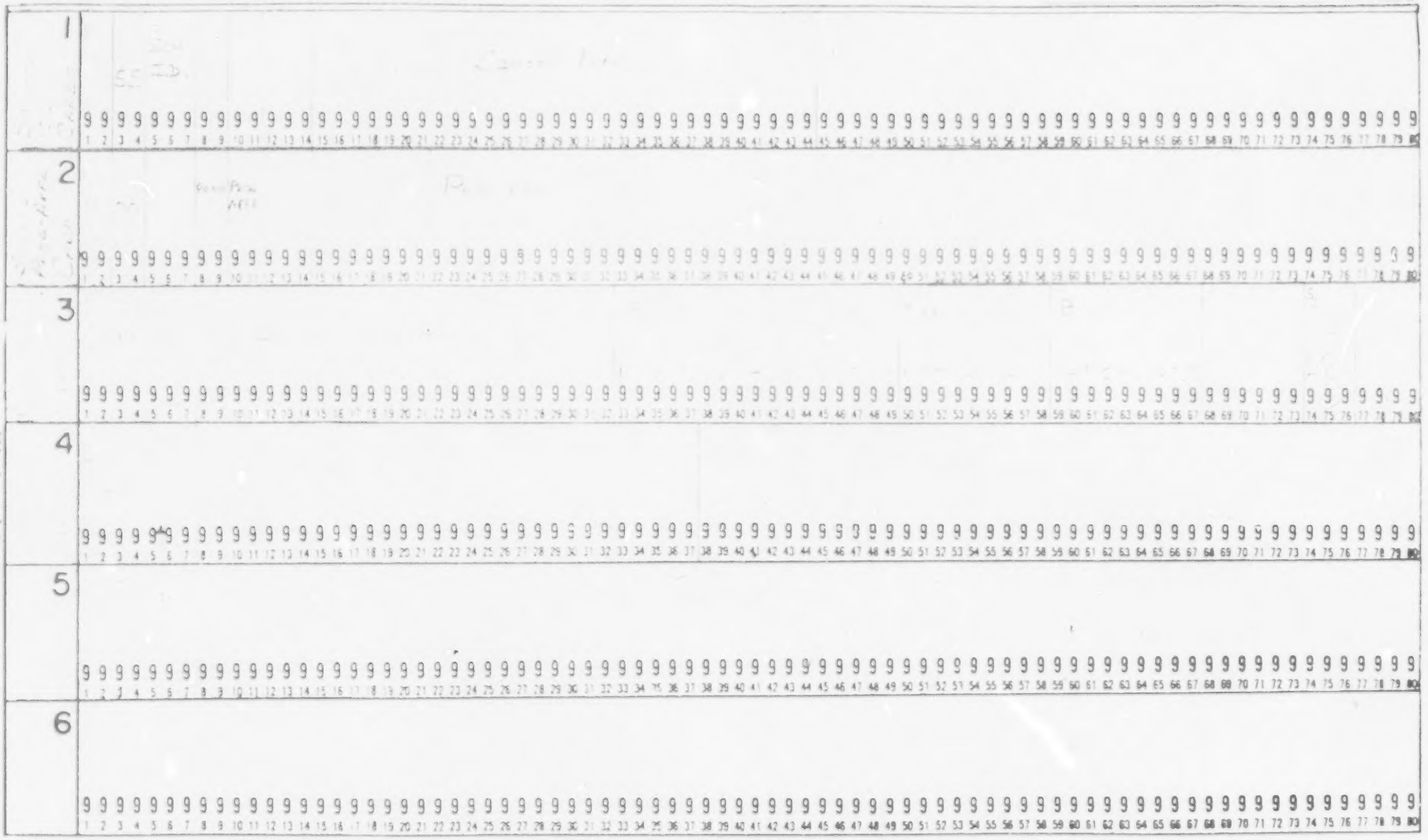

Figure 14.8

RECORD FORMAT

182

Tape/Disk ☐ Data Card ☐ Parameter Card ☒
System Name MIS FINANCE Format Number SFOLST
Programmer Tom Reed Date 7-24-72
Page 1 of 1

FIELD DESCRIPTIONS

From	To	Form	Length	Description, Codes, Comments
				PROGRAM CONTROL CARD
1	21	Ø	21	Blank.
22	46	AN	25	District name.
47	60	AN	14	Run identification information (e.g. '1972-1973').
61		LIT	1	Card record code. 'H'.
62	68	Ø	7	Blank.
69	72	N	4	District number.
73	75	N	3	Run number.
76	80	Ø	5	Blank.

MULTIPLE CARD FORM

Figure 15

FORMATS:
Budget Update Records (80 Char. Card Image)

Columns		Description
1-21		Program Account Code
	1-2	Fiscal Year
	3-4	Fund
	5-7	Organizational No.
	8-9	Program
	10-11	Program Area
	12-14	Course No.
	15-18	Expenditure No.
	19-21	Sequence No.
22-71		Description and Pertinent Data
Format 1	22	Blank
	23-25	Teacher No.
	26-38	Teacher Name
	39-50	Course Name
	51	Code Option
	52-58	Salary Charge
	59-65	Line Item No. or Function Object No.
	66-71	Percent of Assignment
Format 2		
	22-25	Position Code
	26-42	Name
	43-49	Salary Charge
	50-53	Hourly Rate
	54-55	Hours Per Day
	56-58	Days Per Year
	59-65	Line Item No. or Function Object No.
	66-71	Percent of Assignment
Format 4		
	22-25	Vendor No.
	26-51	Description
	52-58	Line Item No. or Function Object No.
	59-64	Catalog No.
	65-67	Percent Assigned
	68-71	No. of Units
Format 5		
	22-25	Publisher or Vendor No.
	26-37	Author
	38-57	Title
	58-64	Function Object No./Line Item No.
	65-66	Percent Assigned
	67-71	No. of Units
72-79		Cost or Total Salary
80		Format Number.

MULTIPLE CARD FORM

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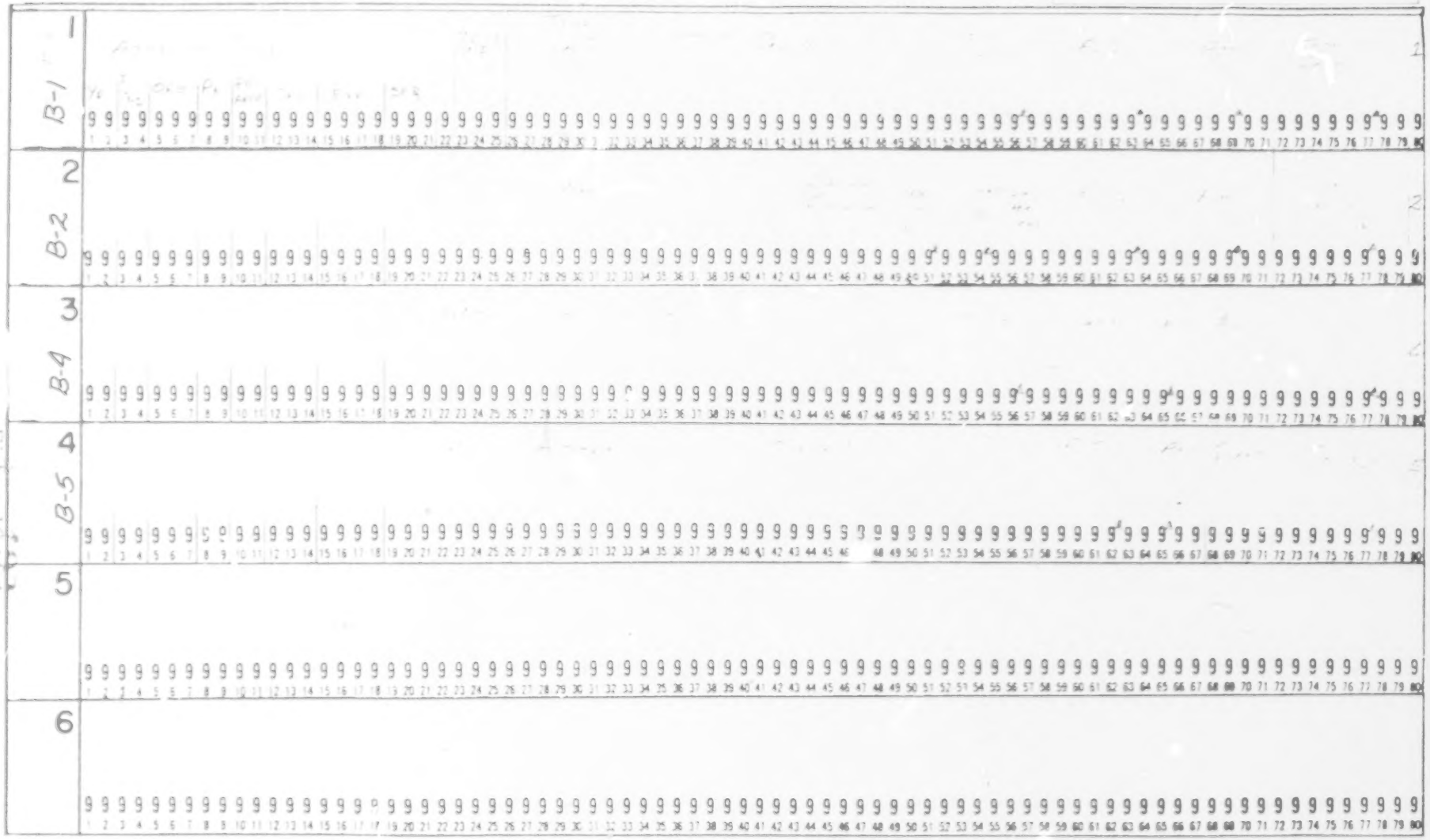

Figure 16

Parameter Card	Columns		Description
	1-21		Program Account Code
		1-2	Fiscal Year
		3-4	Zeros
		5-7	Lowest Organization Number
		8-21	Zeros
	22-44		District Name
	45-65		Blank
	66-69		District Number
	70-72		School I. D.
	73-75		Current Run No.
	76-80	Indicators	
		76-	1 - Initial Run 2 - Succeeding Runs
		77-80	Zeros

School Identification Cards

	1-21		Program Account Code
		1-2	Fiscal Year
		3-4	Zeros
		5-7	Organizational Number
		8-21	Zeros
	22-44		School Name
	45-80		Blank

Program Area Identification Cards

	1-21		Program Account Code
		1-2	Fiscal Year
		3-7	Zeros
		8-9	Program Number (In Sequence)
		10-11	" Area Number (" ")
		12-21	Zeros
	22-44		Program Area Name
	45-80		Blank

Master Budget File (DISK, LRECL=121, BLKSIZE=7260)

Columns	Description
1-2	Fiscal Year
3-4	Fund
5-7	Organizational Number
8-9	Program Number
10-11	Program Area Name
12-14	Course Number
15-18	Expenditure Number

19-21	Sequence Number
22	Record Type 1, 2, 4, 5
23	Delete Code 0-active, 1-deleted
24	Activity Code I Increased D Decreased A Added
25-26	Record Action Run Number
27-33	Function/Object Number
34-83	Description

Format # 1 Certified Salary and Associated Emp. Benefits Format

34	Blank
35-37	Teacher Number
38-50	Teacher Name
51-62	Course Name
63	Option Salary
64-70	Actual Salary Charge
71-77	Function/Object No.
78-83	Percent of Assignment
84-91	Total Salary
92-99	Computed Salary Cost
100-109	Program Area Name
110-121	Blank

Format # 2 Non Certified Salary and Corresponding Emp. Benefits

34-37	Position Code
38-54	Name
55-61	Actual Salary Charge
62-65	Dollar Per Hour-2 dec.
66-67	Hours Per Day-1 dec.
68-70	Days Per Year
71-77	Function/Object No.
78-83	Percent of Assignment
84-91	Total Salary
92-99	Computed Salary Cost
100-109	Prog. Area Name
110-121	Blank

Format # 4 Instructional Supplies, Equip., Capital Outlay
Cont. Services, Other

34-37	Vendors No.
38-63	Description
64-70	Function/Object No.
71-76	Catalog No.
77-79	Percent Assigned

80-83	Units
84-91	Unit Cost
92-99	Computed Entry Cost
100-109	Prog. Area Name
110-121	Blank

Format # 5 Instructional Materials

34-37	Vendor No.
38-49	Author
50-69	Title
70-76	Function/Object No.
77-79	Percent Assigned
80-83	Units
84-91	Unit Cost
92-99	Computed Entry Cost
100-109	Prog. Area Name
110-121	Blank

All printed output of this program is produced in the following sequence:

Course w/in Program Area w/in Program w/in Building order. There are display statements coded in the program to force the proper sequence of reports. The program uses pseudo multiple printers by printing the active budget item list on the first printer and the delete list on the second printer. Display of error messages appear first, second, the active list and third, the delete list.

MULTIPLE CARD FORM

PARAMETER CARD

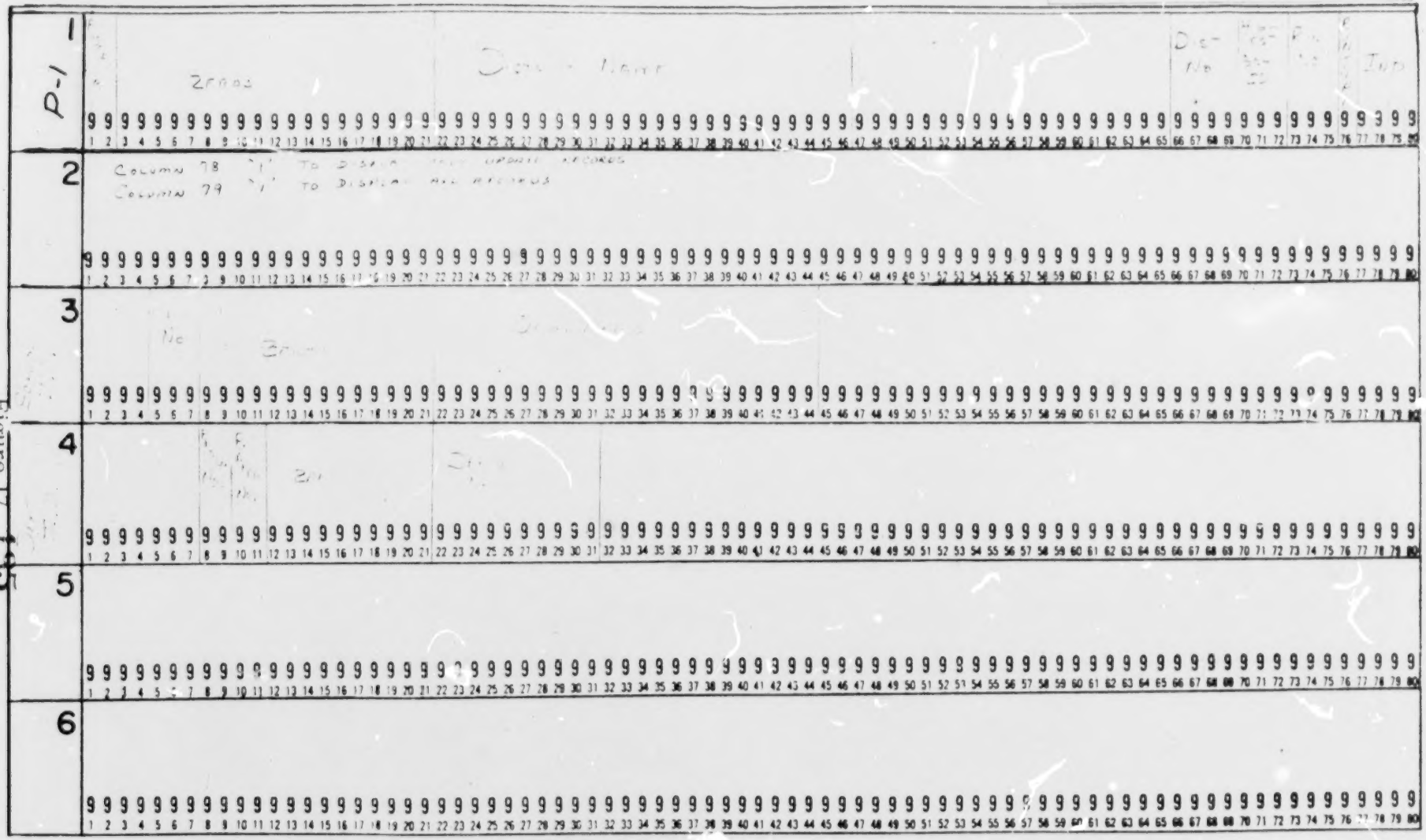

Figure 17 155

STORAGE SCHEMATIC - 2000 POSITIONS

APPLICATION

DATE

(Shaded portion indicates IBM 1401 input output areas)

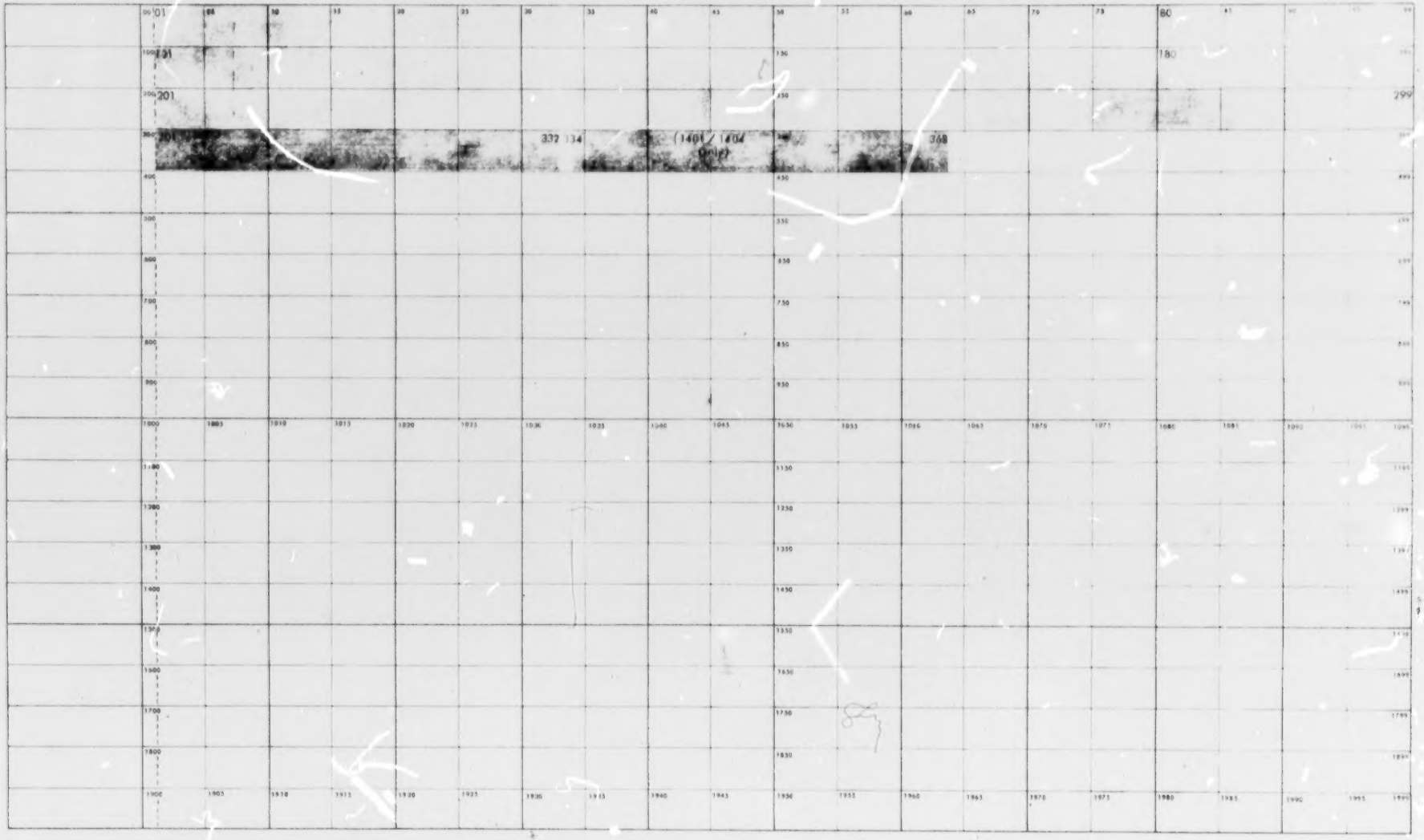

Figure 18

MULTIPLE CARD FORM

Figure 19

JCL CODING FORM

JOB/STEP NAME _____
SYSTEM NAME _____
PROG'R. INIT. JT DATE 2-3-72

IEC

NOTE: 1. ALL SORT PARAMETER CARDS BEGIN IN COLUMN 2.
2. PARAMETER CARDS, IF USED SHOULD BE ENTERED ON THAT LINE WHERE USED.
3. DSNAME CARDS SHOULD BE CODED AS LAST CONTINUATION CARD FOR A FILE IF THIS IS TO BE USED AS A MULTIPLE SCHOOL SYSTEM. Ex. //BB DSN=SSS.

SCHOOL _____ PAGE _____

```
//BUDPULL JOB (353[   ],10),'TRAEGER-IEIC'
//SELCTPRG EXEC COBOL,PROG=IKFCBL00,REGION.GO=50K
//COB.SYSIN DD *
     [FISELECT Program Source deck]
/*
//GO.BUDIN DD DISP=(OLD,KEEP),UNIT=2314,VOL=SER=IEIC[ ],
//  DSN=[                    ]
//GO.PULLOUT DD DISP=(NEW,KEEP),UNIT=2314,SPACE=(CYL,([ ],[ ]),RLSE),
//  VOL=SER=IEIC[ ],
//  DSN=[                    ]
GO.SYSIN DD *
 PULL RECS=( See attached sample parameter cards)
/*
```

Figure 20 198

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UofI — BCD CODING FORM — **University Computer Center**

Examples of coding 'PULL RECS=' Parameter Cards.

Punching Instructions — Verify — no — yes — Page — of

0 = Zero — One — 2 = Two

Ø = Alpha O — Alpha Z

Identification

1. PULL RECS=(8,2,=01=02,15,4,=5310=5340=5370>5099<5271)

THIS card will select and write to a new file all records which:

Have a '01' OR '02' in positions 8 and 9 of the record
AND
Have '5310' OR '5340' OR '5370' OR
are greater than '5099' AND less than '5271' in positions
15, 16, 17, and 18 of the record.

Figure 41

2. A sample of a continuation is:

PULL RECS=(8,2,=01=02,15,4,=5310=5320=5330=5340=5350=5360=5370, X
18,3,>102<907)

3. An example of continuing conditions for the same field onto a continuation card is:

PULL RECS=(8,2,=01=02=03=04=05,15,4,=5310=5320=5330=5340=5350=5360, X
15,4,=5370=5380=5390)

Note that position and length parameters, ie, 15,4, are repeated in the continuation card.

CT3